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AND PLANNING**

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**ENQUÊTE HARMONISÉE SUR LES CONDITIONS DE VIE DES
MÉNAGES (EHCVM) /
HARMONIZED SURVEY ON HOUSEHOLDS LIVING
STANDARDS**

BASIC INFORMATION DOCUMENT OF THE SECOND EDITION



Septembre 2023

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1. Introduction

1.1 Context

The Harmonized Survey on Household Living Conditions (EHCVM) is a joint initiative of the UEMOA Commission and the World Bank. It is conducted as part of the Program for the Harmonization and Modernization of Household Living Conditions Surveys within the UEMOA member states (PHMECV).

The Program's objective is to support the UEMOA Commission in strengthening the capacities of its member states to conduct household living conditions surveys that meet harmonized regional standards, and to make the collected microdata accessible to the public. The specific objectives include, among others, producing indicators on poverty and living conditions, and creating harmonized databases that allow for analyses to inform public policies.

The beneficiaries are the eight UEMOA countries: Benin, Burkina Faso, Côte d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal, and Togo. Apart from the PHMECV beneficiary countries, Cameroon, Chad, Guinea, and Congo have also conducted a similar survey using the same methodologies and have participated in various technical works. The first edition of the survey took place in 2018/2019, and the second, which is the subject of this document, in 2021/2022.

The survey includes four components: a household component, a community component, a price component, and a component on non-standard units (NSU).

1.2 Partners

The survey was designed and conducted through a collaboration between the National Institutes of Statistics (INS), the UEMOA Commission, and the World Bank. The BCEAO, BOAD, and AFRISTAT also supported the process.

The INS were at the center of the process in all phases (design, preparation, data collection, data processing, and data analysis).

1.3 Funding

The program is funded by the World Bank through a grant of \$40.5 million to the UEMOA Commission. For Burkina Faso, the funding amounts to \$4.2 million.

1.4 Technical Assistance

The UEMOA Commission and the World Bank provided technical assistance to the INS throughout the project implementation. Technical assistance was provided in the form of missions and regional workshops.

They brought the necessary expertise in coordination to support the harmonization process so that the produced indicators would be comparable. They also supported the modernization process in the collection phases (CAPI) and methodological phases (e.g., the introduction of the panel dimension in the second edition).

1.5 Organization of the Document

This document is designed to provide the necessary information to understand the data from the second edition of the Harmonized Survey on Household Living Conditions (EHCVM 2). It is composed of seven parts. After the introduction, the next section presents the characteristics of the survey. The presentation of survey instruments is covered in section 3, and sampling issues are addressed in section 4. Then, the document describes the organization of the fieldwork in section 5, presents the main results of the data collection in section 6, and describes the databases in section 7.

2. Characteristics of the Survey

The EHCVM-2 panel of Burkina Faso is based on a half the sample of households from the sampling frame used in the first edition of EHCVM-1 of BFA 2018/19. The survey took place in two waves, each wave covering half of the sample.

2.1 Household and Community Components

The household and community components of the survey are organized into two waves. Each wave covers half of the cluster sample and half of the household sample. Organizing the work into two waves allows for the consideration of seasonal variations in consumption throughout the year. Each wave of the survey was preceded by a listing phase that identified the households from the first edition. The data collection for the first wave took place in September, October, and November 2021. For the second wave, the collection phase occurred in April, May, and June 2022.

2.2 Price Component

The price component is organized differently, with data collected monthly throughout the entire collection period, including during the break period between the two waves. Price data was collected from November 15, 2021, to July 31, 2022.

2.3 NSU Component

The component related to non-standard units (NSU) allows for the production of factors to convert the non-standard consumption units used in households (piles, bowls, ears) into standard units (kilograms, liters). Information on the NSUs was collected during the 2018/2019 episode, and the produced conversion factors are still valid. Therefore, in principle, it was not necessary to conduct another collection for this component. However, there was a supplementary collection to complete certain missing units. This collection took place in April-May-June 2021.

3. Collection Instruments

The survey has four questionnaires: a household questionnaire, a community questionnaire, a price questionnaire, and a questionnaire on non-standard units.

3.1 Household Questionnaire

The household questionnaire is designed to collect information at both the household and individual levels. The sections to be filled out at the household level are as follows: control section, food consumption, food security, non-food expenditures, existence of agricultural enterprises, housing, household assets, monetary transfers, shocks, safety nets, agriculture, livestock, fishing, agricultural equipment, subjective poverty, governance, peace and security. The sections for collecting information at the individual level are: sociodemographic characteristics of household members, education, health, employment, non-employment-related individual income, savings, and characteristics of non-agricultural enterprises. The content of the household questionnaire is detailed below:

- **Cover Page:** The cover page contains information related to the identification and geospatial location of the household. This section also records basic information about the head of the surveyed household.
- **Section 0: Household Identification and Control Information:** This section provides a detailed geographical location of the household. It also records data on the conduct of the interview, including visit dates and the language of the interview.
- **Section 1: Sociodemographic Characteristics of Household Members:** This section concerns all household members. It contains a list of household individuals and provides sociodemographic characteristics such as the relationship to the head of household, age, marital status, religion, residency status, nationality, ethnicity, parental survival, education level, father's and mother's occupation, etc.
- **Section 2: Education (Individuals Aged 3 Years and Older):** This section concerns individuals aged three years and older. It contains variables for literacy, schooling, and the individual's education level. It also provides

information on the individual's journey through the education system, including difficulties encountered and expenses borne.

- **Section 3: General Health:** This section is filled out for all household members. It provides information on major health problems and consultations that household members have had in the 30 days preceding the investigator's visit. It addresses constraints and difficulties regarding the quality and access to health services. The section also examines consultations and health expenses in the last three months and hospitalizations and expenses in the twelve months preceding the survey. This section also deals with disabilities in individuals aged 5 years and older.
- **Section 4: Employment:** The employment section is dedicated to household members aged 5 years and older. It contains three subsections: labor market participation, primary employment, and secondary employment.
 - **Part A: Labor Market Participation (Individuals Aged 5 Years and Older):** This subsection collects information on labor market participation and concerns all individuals aged 5 years and older. It includes the household member's activity schedule and variables that capture their participation in the labor market in the seven days preceding the investigator's visit. It also includes the job search process implemented 30 days before the investigator's visit.
 - **Part B: Primary Employment in the Last 12 Months (Individuals Aged 5 Years and Older):** This part concerns individuals who have worked in the last 12 months and collects information on the characteristics of the primary job. Data collected includes the profession, industry, occupational category, institutional sector, and for employees, salary, and other benefits in kind.
 - **Part C: Secondary Employment in the Last 12 Months (Individuals Aged 5 Years and Older):** This subsection focuses on information related to secondary employment held in the 12 months preceding the investigator's visit, for individuals identified as having one. The information collected is similar to that of the previous section.

- **Section 5: Non-Employment Income in the Last 12 Months (Individuals Aged 15 Years and Older):** This part collects information on non-employment income for all individuals aged 15 years and older. The questionnaire explores pensions and other public transfers, rents, and other financial and property income. Private monetary transfers are not included; they are covered in section 13.
- **Section 6: Savings and Credit (Individuals Aged 15 Years and Older):** This section collects data on access to financial institutions and prepaid services, savings, loans or credits taken, repayments made, and upcoming payment deadlines, for household members aged 15 years and older.
- **Section 7: Food Consumption:** This section collects data on household food consumption. Food consumption has two components: meals taken outside the home by consumption post (breakfast, lunch, dinner, snack) and in-home consumption by consumption item. This section has two main parts:
 - **Part A: Meals Taken Outside the Household in the Last 7 Days:** This part collects information on meals consumed by one or more household members in the seven days preceding the investigator's visit.
 - **Part B: Food Consumption in the Last 7 Days and Purchases in the Last 30 Days:** This part collects information on items consumed in the household in the seven days preceding the investigator's visit. For each item, the section records quantities consumed, acquisition mode (purchase, self-consumption, gift). If the consumed product was purchased in the 30 days preceding the interview, the last purchased quantity and the value of this purchase are also recorded.
- **Section 8: Food Security:** This module contains information on the household's resource capacity to ensure food security for its members, according to the FAO's FIES approach. Basic food security questions are asked for a period of 12 months preceding the interview.
- **Section 9: Retrospective Household Food and Non-Food Expenditures:** This section includes six subsections covering most non-food expenditures, except for mobile phone credit recharges (section 1), education (section 2), health (section 3), and housing (section 11).

- **Part A: Festival and Ceremony Expenses in the Last 12 Months:** This part provides information on expenses incurred during festivals and celebrations such as religious festivals, weddings, funerals, baptisms, etc., organized by the household. The variables cover food, drink, clothing and footwear, hall rentals, etc.
- **Part B: Non-Food Expenses in the Last 7 Days:** This part provides information on non-food expenses as frequent as food expenses, such as cigarettes, kerosene, firewood, fuel, urban transport, newspapers, etc. The main variable recorded is the amount spent.
- **Part C: Non-Food Expenses in the Last 30 Days:** This part provides information on expenses for items such as wine and spirits, domestic gas, domestic staff wages, and other relatively frequent household operating expenses. The main variable recorded is the amount spent.
- **Part D: Non-Food Expenses in the Last 3 Months:** This part provides information on expenses for items such as intercity transport, entertainment costs, postal services, gardening, pet care, etc. The main variable recorded is the amount spent.
- **Part E: Non-Food Expenses in the Last 6 Months:** This part provides information on expenses for clothing and footwear purchased other than during festivals and celebrations. The main variable recorded is the amount spent.
- **Part F: Non-Food Expenses in the Last 12 Months:** This part relates to annual or less frequent expenses such as housing investment, housing repairs, international travel, acquisition of durable goods, etc. The main variable recorded is the amount spent.
- **Section 10: Non-Agricultural Enterprises:** This section concerns non-agricultural enterprises owned by the household.
 - **Part A: Existence of Non-Agricultural Enterprises:** This part records whether the household owns at least one non-agricultural enterprise.
 - **Part B: Characteristics of Non-Agricultural Enterprises:** It collects detailed information on non-agricultural enterprises owned by the household. The section records the enterprise owner, industry,

enterprise age, degree of formalization, variables for calculating accounting aggregates, family labor, and salaried labor.

- **Section 11: Housing Characteristics:** This section concerns household housing characteristics, including the type of material used for the roof, floor, and walls, as well as amenities (electricity, water, sanitation, toilets, etc.). The section also details housing expenses (rent, water bills, electricity bills, fixed telephone bills, etc.).
- **Section 12: Household Assets:** This section provides information on the household's durable goods, including appliances, furniture, means of transportation, etc. The considered goods must be in working condition. For each good, the number owned by the household is recorded. For the most recently acquired good, the age, acquisition value, and replacement cost are recorded.
- **Section 13: Transfers Received by the Household:** This section collects information on transfers received by the household from other households. It provides detailed information on the sender's characteristics, reason for the transfer, transaction channel, and amount received.

NB: Unlike the first edition, the subsection on transfers issued (13B) was not included.

- **Section 14: Shocks and Coping Strategies :** This section provides information on the shocks experienced by the household. It contains two parts:
 - **Part A: Covid-19 and Its Impact on Households** This subsection pertains to shocks directly related to the Covid-19 pandemic that emerged in 2020. It examines potential shocks (illness, reduced working hours, decreased transfers, etc.) that occurred within the household. Additionally, it assesses the household's resilience to these shocks.
 - **Part B: Other Shocks and Coping Strategies** These shocks are related to employment, income, health, natural disasters, etc. This section provides detailed information on the consequences of these shocks and any strategies used to mitigate their effects.

- **Section 15: Social Safety Nets** This section provides information on access to social security programs such as food distribution, free healthcare for children and pregnant women. The variables collected include, among others, the nature and frequency of the assistance received, the identity of the beneficiaries within the household, and the difficulties encountered in receiving various types of aid.
- **Section 16: Agriculture** This section relates to agricultural activities carried out within the household related to the 2021/22 agricultural season, from April 1, 2021 to March 31, 2022. It includes four subsections:
 - **Part A: Fields and Plots** This subsection provides information on the characteristics of the plots farmed by the household, including the identity of the farmer, the area of each plot, the crops grown, the mode of occupation, labor, use of inputs, etc.
 - **Part B: Cost of Inputs** This subsection provides information on the cost of inputs used by the household, the quantity used, and the source of supply.
 - **Part C: Crops** This subsection lists the crops grown on the plots farmed by the household. For each of these crops, information about the harvests is collected.
 - **Part D: Use of Production** For each crop, this subsection addresses the use of the production (consumption, sale, storage).
- **Section 17: Livestock:** This section is dedicated to livestock activities carried out within the household. The household may own these animals or raise them for others. For each type of animal, the section captures information on the number of animals owned, the operating expenses incurred, and the amount of sales from livestock products (animals, meat, milk, eggs, and other by-products).
- **Section 18: Fishing:** This section identifies households that engage in fishing. It provides information on the quantities and types of fish caught, operating expenses, income generated, etc.
- **Section 19: Agricultural Equipment:** This section identifies the equipment owned by the household for agricultural, livestock, and fishing activities. For

each piece of equipment, it captures information on its age, acquisition value, and current estimated value according to the household.

- **Section 20: Subjective Poverty, Governance, Peace, and Security** : This section provides information on topics related to monetary poverty and living conditions.
 - **Part A: Subjective Poverty** : This subsection captures households' perceptions of their living standards.
 - **Part B: Governance** This subsection relates to governance issues, including individual freedoms, participation in major decisions, corruption, etc.
 - **Part C: Peace and Security** :This final part addresses security, aiming to evaluate whether people feel safe and if individuals have been victims of aggression.

NB: Parts B and C of Section 20 were not included in the questionnaire of the first edition.

3.2. Community Questionnaire

This instrument was used to gather essential information about local communities. It was conducted in the form of focus groups within the village/neighborhood where the cluster is located. It consists of four main sections that collect general data about the community, basic social infrastructure, agricultural activities, and community participation.

- **Coverage**: This section includes geospatial location information of the cluster. It also contains basic information about the surveyed community leader.
- **Section 0: List of Respondents** :This section lists the individuals who provided the information collected about the village/neighborhood. It also collects the following sociodemographic characteristics for these respondents: gender, age, role in the community, number of years living in the community, and level of education.
- **Section 1: General Characteristics of the Neighborhood/Village** This section gathers sociodemographic, economic, geographic, and living condition information at the village/neighborhood level. Information collected includes

- population size, languages spoken, topography, distance to the nearest city, accessibility, associative organization, access to electricity, clean water, and mobile phone networks.
- **Section 2: Existence and Accessibility to Social Services** This section pertains to existing social infrastructure in the village/neighborhood. For each infrastructure, the questionnaire captures information on accessibility in terms of transportation means to reach the infrastructure, travel time from the village/neighborhood to the infrastructure, and issues encountered while using the service.
 - **Section 3: Agriculture** This section provides information on the agricultural activities of the village/neighborhood. It gathers data on the crops cultivated, the existence of agricultural cooperatives, access to agricultural equipment, potential use of improved agricultural techniques, etc.
 - **Section 4: Community Participation** This subsection collects data on citizens' participation in community life and their sense of ownership when it comes to the construction and maintenance of infrastructures such as roads, bridges, schools, health centers, wells, and markets.

3.3. Price Questionnaire

- **Coverage:** The coverage includes information regarding the identification and geospatial location of the market. It also records the market name and the number of visits made to the market.
- **Section 1:** Collection of Prices and Weights for Homogeneous Products
- **Section 2:** Collection of Prices for Heterogeneous Products

The price component is designed to collect prices from a sample of markets. Surveys are conducted monthly in selected localities. In each region, there are at least two selected localities (one urban and one rural). Points of sale include markets, shops, supermarkets, etc. The price questionnaire collects prices for both food and non-food consumer goods, using the classification from the household consumption modules.

3.4. Questionnaire on Non-Standard Units

- **Coverage:** The coverage includes information regarding the identification and geospatial location of the market. It also records the market name and the number of visits made to the market.
- **Section 0: Control Information:** This section provides information about the geographical location and the market operating days.
- **Section 1: Survey of Weights and Prices of Non-Standard Consumption Units:** For each product-unit-size combination of non-standard units, the product is weighed and the corresponding weight in kilograms is recorded.
- **Section 2: Survey of Weights and Prices of Non-Standard Production Units:** For each product-unit combination, agricultural products are weighed and the corresponding weight in kilograms is recorded.

4. Sampling

4.1. Household and Community Component

The panel sample of the EHCVM-2 2021/22 corresponds to half of the households interviewed in EHCVM-2 2018/19. Households were tracked within the EA. In other words, EHCVM-1 households that have left their EA of origin were not surveyed.

For this panel component, the same EAs from EHCVM-1 (except those inaccessible due to insecurity) were surveyed in both waves. A total of 585 EAs were selected (half (293) for the first wave and half (292) for the second wave). Within each EA, 6 households out of the 12 surveyed in 2018 were surveyed.

Household members in 2018 who have since left the household were not followed up physically. The survey collected some information on these individuals in one of the modules of the 2021 questionnaire. Sampling only 6 households out of the 12 surveyed in 2018 allowed for the possibility of replacements in cases where a previously sampled household was unavailable for the new round of surveys. Additionally, if the number of available households in a given Enumeration Area (EA) fell below 6, no additional households were included in the survey.

4.2. Price Survey

The selection of markets was done using a reasoned choice method. In each region, at least two markets are chosen in urban areas as observation points for the prices of homogeneous products. Each market is visited once a week, with three price recordings per product. In rural areas, the largest non-daily market is considered, with three price recordings per product and per visit. The rural market is visited once every 15 days. For each heterogeneous product and per investigator, at least three recordings are made monthly, with one recording per point of sale and per visit.

Table 2. Distribution of the market sample.

Regions	Urban area	Rural area	Total markets
Boucle du Mouhoun	1+2	1+1	5

Cascades	1+1	1+1	4
Centre	8+0	1+2	11
Centre-est	1+1	1+1	4
Centre-nord	1+1	1+1	4
Centre-ouest	1+2	1+1	5
Centre-sud	1+2	1+1	5
Est	1+1	1+1	4
Hauts-Bassins	3+1	1+1	6
Nord	1+1	1+1	4
Plateau-central	1+1	1+1	4
Sahel	1+1	1+1	4
Sud-ouest	1+1	1+1	4
Total	37	27	64

Note: The number of markets is given by A+B: A being the number of markets planned as part of the IHPC extension and B being the number of additional markets proposed as part of the price survey for EHCVM2.

4.3. Non-Standard Units (NSU) Component

The sampling follows the same stratification as in the previous edition. The selection of markets was done through purposive sampling. The localities to be visited are identified to ensure adequate national coverage by area and region. Each area within each region will constitute a stratum. Thus, a total of 45 markets have been selected for this additional data collection.

Table 3. Distribution of the market sample for NSU data collection

Region	Area		TOTAL
	Urban	Rural	
BOUCLE DU MOUHOUN	4	3	7
CASCADES	3	2	5
CENTRE	4	2	6
CENTRE EST	4	2	6
CENTRE NORD	3	2	5
CENTRE OUEST	4	3	7

CENTRE SUD	3	2	5
EST	5	2	7
HAUTS BASSINS	4	3	7
NORD	4	2	6
PLATEAU CENTRAL	3	2	5
SAHEL	4	2	6
SUD OUEST	4	2	6
TOTAL	49	29	78

5. Data Collection

5.1. Organization of Fieldwork

Household and Community Components

Data collection from households in 2021/2022 was organized in two waves, just like in 2018/2019. The first wave of data collection took place from October 28, 2021, to January 20, 2022, involving 80 field agents, including 60 interviewers and 20 supervisors/team leaders. The second wave of data collection occurred from April 23 to July 21, 2022, involving 72 field agents, including 54 interviewers and 18 supervisors/team leaders. The work was organized to start and finish almost simultaneously across all strata.

For the second edition of the EHCVM, enumeration activities involved 114 agents (38 cartographers and 76 enumerators) for each wave.

Price Component

The price component began with sampling and identifying points of sale. Agents were then recruited and trained. After the training, data collection started in November 2021 and ended on July 31, 2022, involving a total of 25 data collection agents.

NSU Component

The survey on non-standard units (NSU) was conducted twice. The first survey took place in October and November 2017 and was intended to be the main NSU survey. However, data processing revealed deficiencies in the conversion factors produced by this NSU survey. It was recommended to conduct a supplementary survey to correct these imperfections. The supplementary survey on non-standard units was conducted from July 27 to September 7, 2021, involving 15 interviewers. The executives from the Division responsible for producing the national harmonized price index (INHPC) acted as supervisors/team leaders.

5.2. Collection Method

The CAPI (Computer-Assisted Personal Interview) technique using the "Survey Solution" (SuSo) software is employed for all components of the data collection.

For the household, community, and NSU components, three levels of control are implemented. First, interviewers perform checks directly integrated into the collection application; then, team leaders review the questionnaires, executing the same checks before validating and transmitting them to headquarters; finally, the headquarters team runs a quality control and rejection program on a set of questionnaires.

For the price component, the first and last levels of control described above are instituted.

6. Data Collection Results

As previously indicated, the data were collected in two waves, each wave covering half of the sample. Table 4 provides the distribution of the final sample, showing households (top row) and individuals (bottom row).

Table 4: Number of households in the final database

Wave 1	Wave 2			Total			
Region of residence	Urban	Rural	Total	Urban	Rural	Total	
Boucle du Mouhoun	58	100	158	61	102	163	321
Cascades	54	60	114	54	45	99	213
Centre	156	76	232	157	75	232	464
Centre-Est	63	98	161	50	106	156	317
Centre-Nord	48	59	107	56	65	121	228
Centre-Ouest	55	79	134	57	75	132	266
Centre-Sud	55	97	152	52	87	139	291
Est	65	73	138	51	49	100	238
Hauts-Bassins	89	132	221	89	123	212	433
Nord	48	73	121	47	79	126	247
Plateau-Central	42	77	119	19	87	106	225
Sahel	48	38	86	46	32	78	164
Sud-Ouest	60	78	138	69	81	150	288
Total	841	1 040	1 881	808	1 006	1 814	3 695

Data collected on non-standard units allowed to quantify household consumption and agricultural production. The price data collected contributed to calculating temporal and spatial deflators.

7. Databases

7.1. Household Databases

The household databases correspond to the data collected using the household questionnaire. In principle, each section of the questionnaire corresponds to a file (in Stata format). The names of the dataset files have three main parts and help create a link between the questionnaire and the Stata databases:

1. The first part of the file name refers to the section of the questionnaire (e.g., s00 for section 0, s01 for section 1, s16a for section 16a, etc.).
2. The second part is "me," which refers to household data (to distinguish it from community data), and it is the same for all household files.
3. The third part refers to the country and year of the survey, for example, bfa2021 refers to data from Burkina Faso, 2021 edition of the survey.

Thus, for example, the file `s00_me_bfa_2021.dta` contains the data for section 0 of Burkina Faso for the 2021/2022 edition of the survey.

Each database contains the variables of the concerned section. The variables are named with the section number and the variable number. For example, `s00q01` corresponds to variable `q01` of section `s00`.

In each file, the variables "grappe" (primary sampling unit) and "menage" (household number) are used to identify the household and to perform matching.

Use and Merging of Data

Data from different modules can be easily merged using the unique household identifier "hhid". This variable is constructed from two variables that make up "hhid", which is a combination of codes concerning the enumeration area (variable "grappe") and the household identifier within the enumeration area ("menage"). Similarly to "hhid", `hhid_EHCVM1` in `s00_me_BFA2021` is constructed from the variables `s00q07f1` and `s00q07f2`, respectively `grappe` and `menage` for the EHCVM1 survey. The presence of the `hhid_EHCVM1` variable allows the user to merge the data from this wave with the previous

wave. However, users should keep in mind that for the panel component, only households in the EHCVM2 panel will have a valid (i.e., non-missing) value for `hhid_EHCVM1` and can be merged with the previous wave.

Similarly to the unique household identifier, each member of the households included in the survey is assigned a unique identification number that can be used to merge information about a given household member across different datasets. This is the variable `"pid"` included in the household sociodemographic characteristics module (database `s01_me_BFA2021`). The other datasets have been harmonized to have a variable named `"pid"` that refers to the respondent of the section, in order to enable merging to import the respondent's personal characteristics from the household sociodemographic characteristics module (`s01_me_BFA2021`).

7.2. Community Databases

The community databases correspond to the data collected using the community questionnaire. They are constructed following the same logic as the household databases. In the naming of these databases, the particle `"co"` is used instead of `"me"`. The identification variable is the cluster.

7.3. Auxiliary Databases

There are four main auxiliary databases: Prices, NSU, Survey Weights, and Calories. These databases are briefly described below:

- **Prices:** The price file is named `ehcvm_prix_bfa_2021`. The price file contains variables related to product prices. Data are collected monthly for each stratum (region/residence area). The main variables are as follows:
 - **Region:** The region of the country where the data was collected
 - **Residence Area:** The type of residential area
 - **Year:** The year of data collection
 - **Month:** The month of data collection
 - **Week:** The week number within the month
 - **Product Code (Codpr):** The code of the product being collected

- **Variety:** The variety of the product within the code (a product can have several varieties)
- **Unit:** The unit of measurement
- **Weight:** The weight of the product
- **Price:** The price of the product according to the weight and unit concerned
- **NSU (Non-Standard Units):** The NSU consumption file is titled ehcvn_NSU_bfa_2021. This file contains variables related to conversion factors between non-standard units and standard units. The data was collected in 2018 and supplemented in 2021. The main variables are:
 - **Region:** The region of the country where the data was collected
 - **Residence Area:** The type of residential area
 - **Product Code (Codpr):** The code of the product being collected
 - **Unit:** The unit of measurement
 - **Size:** The size for the unit considered
 - **Weight:** The conversion factor into a standard unit
- **Weights** The weights file is named ehcvn_ponderations_bfa_2021. The weights are calculated for each household, taking into account the panel dimension. The variables are as follows:
 - **Cluster:** Primary sampling unit
 - **Household (Menage):** Household number within the cluster
 - **Household Weight (hhweight):** The weight of the household
- **Calories** The file is titled calorie_conversion_WA_2021. This file allows the conversion of 100 grams of a product into calories for West Africa (WA). The variables are as follows:
 - **Product Code (Codpr):** The code of the product concerned
 - **Refuse:** The percentage of waste in the product
 - **Cal:** Caloric value of 100 grams of the product

The household, community, and auxiliary databases are located in a directory (e.g., "datain") with different subdirectories. The analysis databases, which are described below, are in another directory (e.g., "dataout").

7.4. Analysis Databases

Four main databases have been created for poverty analysis and other studies: an individual database, a household database, a consumption database, and a database for calculating poverty indicators and conducting other analyses. The do-files used to create these databases are archived and accompany these files. The databases are described below.

- **Individual Database** The individual file is titled ehcv_m_individu_bfa_2021. This file contains variables created for analysis purposes, either by using a single collected variable or by combining multiple variables. Since these are analysis variables, imputations are occasionally made on the initial variables. The variables are as follows:
 - **country**: Country
 - **year**: Year of the survey
 - **hhid**: Household identifier
 - **cluster**: Cluster number
 - **menage**: Household number
 - **panel**: Panel
 - **numind**: Individual number
 - **vague**: Wave
 - **zae**: Agroecological zone
 - **zaemil**: Agroecological zone by residence
 - **region**: Region of residence
 - **departement**: Department of residence
 - **sp_commune**: Sub-prefecture or commune of residence
 - **milieu**: Residence area
 - **hhweight**: Household weight
 - **resid**: Resident

- **sexe**: Gender
- **age**: Age in years
- **lien**: Relationship
- **mstat**: Marital status
- **religion**: Religion
- **ethnie**: Ethnicity
- **nation**: Nationality
- **agemar**: Age at first marriage
- **mal30j**: Health problem in the last 30 days
- **aff30j**: Health problem
- **armal**: Stopped activity due to illness
- **durarr**: Duration of activity stoppage due to illness
- **con30j**: Consultation in the last 30 days
- **hos12m**: Hospitalization in the last 12 months
- **couvma**: Individuals with health coverage
- **moustiq**: Slept under a mosquito net last night
- **handit**: Any level of disability
- **handig**: Major disability only
- **alfa**: Literacy (read/write)
- **alfa2**: Literacy (read, write, and understand)
- **scol**: School attendance in 2020/2021
- **educ_scol**: Current educational level
- **educ_hi**: Highest completed educational level
- **diplome**: Highest diploma
- **telpor**: Individual has a mobile phone
- **internet**: Individual has internet access
- **activ7j**: Activity status in the last 7 days
- **activ12m**: Activity status in the last 12 months
- **branch**: Activity branch
- **sectins**: Institutional sector of main employment
- **csp**: Socio-professional category of main employment
- **volhor**: Annual work hours for the main job

- **salaire**: Annual salary of the main job
 - **emploi_sec**: Has secondary employment in the last 12 months
 - **sectins_sec**: Institutional sector of secondary employment
 - **csp_sec**: Socio-professional category of secondary employment
 - **volhor_sec**: Annual work hours of secondary employment
 - **salaire_sec**: Annual salary of secondary employment
 - **bank**: Bank or other account
 - **serviceconsult**: Health service consulted
 - **persconsult**: Health personnel consulted
- **Household** The household file is titled **ehcvm_menage_bfa_2021**. This file contains variables created for analytical purposes. Some household-level variables are created similarly to those in the individual file. Other variables pertain to the head of the household, and in these cases, they are drawn from the previous file.
 - **country**: Country
 - **hhid**: Household ID
 - **grappe**: Cluster
 - **menage**: Household number in the cluster
 - **vague**: Wave
 - **logem**: Housing occupation
 - **mur**: Wall made of permanent materials
 - **toit**: Roof made of permanent materials
 - **sol**: Floor made of permanent materials
 - **eauboi_ss**: Drinking water in the dry season
 - **eauboi_sp**: Drinking water in the rainy season
 - **elec_ac**: Access to the electrical grid
 - **elec_ur**: Uses electricity from the grid
 - **elec_ua**: Uses electricity (solar panel or generator)
 - **ordure**: Waste disposed of safely
 - **toilet**: Sanitary toilets
 - **eva_toi**: Excrement disposed of safely

- **eva_eau**: Wastewater disposed of safely
 - **year**: Year
 - **tv**: Household owns a television
 - **fer**: Household owns an electric iron
 - **frigo**: Household owns a refrigerator or freezer
 - **cuisin**: Household owns an electric or gas stove
 - **ordin**: Household owns a computer
 - **decod**: Household owns a decoder or satellite dish
 - **car**: Household owns a car
 - **superf**: Agricultural area
 - **grosrum**: Number of large ruminants
 - **petitrum**: Number of small ruminants
 - **porc**: Number of pigs
 - **lapin**: Number of rabbits
 - **volail**: Number of poultry
 - **sh_id_demo**: Idiosyncratic demographic shock
 - **sh_co_natu**: Covariate natural shock
 - **sh_co_eco**: Covariate economic shock
 - **sh_id_eco**: Idiosyncratic economic shock
 - **sh_co_vio**: Covariate violence shock
 - **sh_co_oth**: Other shocks
- **Consumption** The consumption file is titled **ehcvm_conso_bfa2021**. The main variable in this file is the annual consumption by product and mode of acquisition.
 - **grappe**: Primary sampling unit
 - **menage**: Household number in the cluster
 - **dodpr**: Code of the product being surveyed
 - **modep**: Mode of acquisition (purchase, self-consumption, gift received, imputed rent, usage value of durable goods)
 - **depan**: Annual expenditure
 - **Poverty** The poverty file is titled *ehcvm_welfare_2b_tgo_2021*. This file contains variables for calculating poverty indicators and conducting other analytical work.

- **grappe**: Primary sampling unit
- **menage**: Household number in the cluster
- **region**: Region of the country being surveyed
- **milieu**: Area of residence
- **hhweight**: Household weight
- **hysize**: Household size
- **pcexp**: Well-being indicator
- **zref**: National poverty threshold
- **hgender**: Gender of the Household Head (HH)
- **hage**: Age of the Household Head
- **hmstat**: Marital status of the HH
- **hreligion**: Religion of the Household Head
- **hnation**: Nationality of the Household Head
- **hethnie**: Ethnicity of the Household Head
- **halfa**: Literacy of the Household Head (read and write)
- **halfa2**: Literacy of the Household Head (read, write, and understand)
- **heduc**: Education of the Household Head
- **hdiploma**: Diploma of the Household Head
- **hhandig**: Major disability of the Household Head
- **hactiv7j**: Activity of the HH in the last 7 days
- **hactiv12m**: Activity of the HH in the last 12 months
- **hbranch**: Activity branch of the HH
- **hsectins**: Institutional sector of the HH
- **hcsp**: Socio-professional category of the HH
- **dali**: Annual household food consumption
- **dnal**: Annual household non-food consumption
- **dtot**: Total annual household consumption
- **pcexp**: Well-being indicator
- **zref**: National poverty threshold
- **def_spa**: Spatial deflator
- **def_temp**: Temporal deflator

Appendix 1: List of Databases and Their Description

Questionnaire	Database Name	Description
Section 0	s00_me_bfa2021	Household identification
Section 1	s01_me_bfa2021	Socio-demographic characteristics of household members
Section 2	s02_me_bfa2021	Education of household members aged 3 and above
Section 3	s03_me_bfa2021	Health of household members
Section 4	s04a_me_bfa2021	Employment status of household members aged 5 and above
	s04b_me_bfa2021	Primary employment of household members aged 5 and above
	s04c_me_bfa2021	Secondary employment of household members aged 5 and above
Section 5	s05_me_bfa2021	Non-employment income of household members aged 15 and above
Section 6	s06_me_bfa2021	Savings and credit of household members aged 15 and above
Section 7	s07a_1_me_bfa2021	Meals taken outside the household by each household member
	s07a_2_me_bfa2021	Meals taken together outside the household by at least two household members
	s07b_me_bfa2021	Food consumption in the last 7 days
Section 8	s08a_me_bfa2021	Food security according to the FAO's approach
Section 9	s09a_me_bfa2021	Expenditure on holidays and ceremonies in the last 12 months
	s09b_me_bfa2021	Non-food expenditures in the last 7 days
	s09c_me_bfa2021	Non-food expenditures in the last 30 days
	s09d_me_bfa2021	Non-food expenditures in the last 3 months
	s09e_me_bfa2021	Non-food expenditures in the last 6 months
	s09f_me_bfa2021	Non-food expenditures in the last 12 months
Section 10	s10a_me_bfa2021	Existence of a non-agricultural business
	s10b_me_bfa2021	Characteristics of non-agricultural business
Section 11	s11_me_bfa2021	Housing characteristics
Section 12	s12_me_bfa2021	Households assets
Section 13	s13_1_me_bfa2021	Identification of households that received at least one transfer
	s13_2_me_bfa2021	Transfers received by the household
Section 14	s14a_me_bfa2021	Covid-19 and its impact on households
	s14b_me_bfa2021	Other shocks and survival strategies
Section 15	s15_me_bfa2021	Safety nets
Section 16	s16a_me_bfa2021	Fields and plots
	s16b_me_bfa2021	Cost of inputs
	s16c_me_bfa2021	Crops

Questionnaire	Database Name	Description
	s16d_me_bfa2021	Use of production
Section 17	s17_me_bfa2021	Livestock
Section 19	s19_me_bfa2021	Agricultural equipment
Section 20	s20a_me_bfa2021	Subjective poverty
	s20b_1_me_bfa2021	Democratic governance
	s20b_2_me_bfa2021	Democratic governance: characteristics of democracy (s20q02)
	s20b_3_me_bfa2021	Democratic governance: discrimination (s20q05)
	s20c_me_bfa2021	Peace and security

Appendix 2: Branches of activities/sections

Code	Label
A	Agriculture, forestry, and fishing
B	Extractive activities
C	Manufacturing
D	Production and distribution of electricity, gas, steam, and air conditioning
E	Water supply; sewerage, waste management, and remediation activities
F	Construction
G	Wholesale and retail trade; repair of motor vehicles and motorcycles
H	Transportation and storage
I	Accommodation and food service activities
J	Information and communication
K	Financial and insurance activities
L	Real estate activities
M	Professional, scientific, and technical activities
N	Professional, scientific, and technical activities
O	Public administration and defense; compulsory social security
P	Education
Q	Health and social work activities
R	Arts, entertainment, and recreation
S	Other service activities
T	Activities of households as employers of domestic personnel; undifferentiated goods- and services-producing activities of households for own use
U	Activities of extraterritorial organizations and bodies

Appendix 3: Branch/division of activities

Code	Label
01	Crop and animal production, hunting, and related service activities
0111	Millet, sorghum, maize farming
0112	Rice farming
0113	Cereal and other unspecified crop farming
0114	Tubers farming (yam, taro, cassava, plantain, etc.)
0115	Peanut farming
0116	Other oilseeds and legumes farming (cowpea, beans, other oilseed seeds, etc.)
0117	Vegetable farming; horticulture; nurseries
0118	Cotton farming
0119	Other temporary crops
0121	Cocoa, coffee, tea farming
0122	Citrus farming
0123	Mango farming
0124	Other tropical fruit farming
0125	Oil palm farming
0126	Cashew farming
0127	Other oilseed fruit farming
0128	Plants for beverage or spice farming
0129	Other permanent crops
0141	Cattle farming
0142	Goat farming
0143	Sheep farming
0144	Poultry farming

Code	Label
0145	Horse and other equine farming
0146	Camel and other camelid farming
0147	Other types of animal farming
0148	Production of animal origin products and activities related to livestock (support activities)
0149	Hunting, trapping, restocking of game, and related activities (Capture of animals for food, fur, skins, or research; production of furs, reptile skins, etc.)
02	Forestry and logging
0210	Forestry and other logging activities (standing tree exploitation, coppice exploitation, pulp and fuelwood exploitation, nursery exploitation)
0220	Logging (production of logs, fuelwood exploitation and production, charcoal production, wood chips)
0230	Gathering (harvesting of wild-growing products: nuts, gum, etc.)
0240	Activities related to forestry and logging (forest inventories, forestry consultancy services, wood assessment, forest fire prevention and protection, phytosanitary control, transport of logs in the forest)
03	Fishing, aquaculture
0310	Marine fishing (commercial fishing in high seas and along coasts, collection of crustaceans and mollusks, etc.)
0320	Inland fishing (commercial fishing in inland waters, collection of crustaceans and mollusks in freshwater, etc.)
0330	Aquaculture: farming and harvesting of aquatic species
05	Coal and lignite extraction
0510	Coal and lignite extraction (coal and brown coal extraction); peat extraction
06	Crude oil and natural gas extraction
0610	Crude oil and natural gas extraction
0620	Activities related to crude oil and natural gas extraction (prospecting activities, directed drilling and re-drilling, drainage and pumping services, etc.)

Code	Label
07	Metal ore extraction
0710	Iron ore extraction
0720	Uranium ore extraction
0730	Gold ore extraction
0740	Extraction of non-ferrous metal ores n.e.c. (silver, platinum, bauxite, copper, lead, zinc, tin, manganese, chrome, nickel, cobalt, molybdenum, tantalum, vanadium, etc.)
08	Other extractive activities
0810	Extraction of stones, sands, and clays
0820	Extraction of natural fertilizers and minerals for the chemical industry
0830	Various extractive activities
09	Ancillary activities of extraction
0900	Activities related to extraction
10	Manufacture of food products
1010	Slaughtering, processing, and preservation of meat (manufacture of canned meat)
1020	Processing and preservation of fish, crustaceans, and mollusks (preparation and preservation of fish; e.g., canned sardines)
1030	Processing and preservation of fruits and vegetables (e.g., jams, vegetable preserves, etc.)
1040	Manufacture of fats (vegetable and animal oils and fats (peanuts, cotton, etc.), margarine, shea butter, butter, etc.)
1050	Manufacture of dairy products (yogurt, curdled milk, etc.) and ice cream
1060	Grain milling (milling of flours or semolinas from cereals or vegetables; milling, cleaning, and polishing of rice; production of flour or pasta mixes from these products; milling of maize and vegetables); manufacture of starchy products (semolina, starch, cornstarch, glucose production, tapioca, corn oil)
1070	Manufacture of other cereal-based food products n.e.c. (activities of bakers and pastry cooks)
1080	Manufacture of other food products n.e.c.

Code	Label
11	Manufacture of beverages
1110	Manufacture of fruit juices (local and industrial) and mineral water
1110	Manufacture of sodas and other non-alcoholic beverages
1120	Manufacture of beers and malt-based beverages
1120	Manufacture of wines, spirits, and other alcoholic beverages
12	Manufacture of tobacco products
1210	Tobacco processing
1220	Manufacture of tobacco-based products
13	Manufacture of textiles
1310	Spinning, weaving, and textile finishing
1320	Manufacture of fabrics and knitwear articles (sweaters, cardigans, pullovers, vests and similar articles, socks, tights)
1330	Manufacture of other textile articles (travel blankets, household linen, cushions, poufs, pillows, sleeping bags, curtains, covers for furniture or machines, manufacture of textile carpets, mats, and rugs, bath towels, hygienic paper towels, etc.)
14	Manufacture of wearing apparel
1400	Manufacture of wearing apparel except shoes (ready-to-wear and made-to-measure; e.g., tailors, dressmakers perform this activity)
15	Manufacture of leather and leather articles
1510	Leatherworking; manufacture of travel articles (leather handbags, travel bags, etc.)
1520	Manufacture of footwear (excluding plastic footwear)
16	Production of wood and wood cork products (excluding furniture manufacturing); manufacture of wickerwork and basketware
1610	Sawmilling and planing of wood (different from carpentry work)
1620	Manufacture of wood products (timber, plywood, veneer, wooden packaging, etc. excluding furniture manufacturing)

Code	Label
1630	Manufacture of cork, wickerwork, and basketware (woven or crafted items with hard fibers, particularly from coconut, sisal (agave), jute, and bramble)
17	Manufacture of paper and paper products
1700	Manufacture of paper, cardboard, and paper or cardboard articles
18	Printing and reproduction of recorded media
1810	Publishing (design of printing products such as sketches, mock-ups, electronic documents, etc.)
1820	Printing (printing activities of products such as newspapers, books, periodicals, business forms, greeting cards, and other items)
1830	Reproduction of recordings (reproduction of gramophone records, compact discs, music tapes, and other sound recordings from an original, software reproduction, etc.)
19	Coking and refining of petroleum products
1910	Petroleum refining
1920	Coking ; nuclear fuel processing
20	Manufacture of chemicals
2010	Manufacture of basic chemicals (manufacture of industrial or medical liquefied or compressed inorganic gases, manufacture of chemical elements, manufacture of inorganic acids)
2020	Manufacture of fertilizers and nitrogen compounds
21	Manufacture of pharmaceutical preparations, medicinal chemicals, and herbal products
2110	Manufacture of pharmaceutical products
2120	Manufacture of soaps and detergents, perfumes, toiletries, and cleaning products
2130	Manufacture of paints, varnishes, similar coatings, printing inks, and mastics
2140	Manufacture of pesticides and other agrochemical products
2150	Manufacture of other chemicals, n.e.c
2160	Manufacture of synthetic fibers (polyamides, polyesters, polyurethanes, etc.) or artificial fibers (viscose, cellulose acetate, etc.)
22	Manufacture of rubber and plastic products

Code	Label
2210	Manufacture of rubber products (tires, conveyor belts, sponges, molded products, shoes, pipes, cylinder sleeves, adhesives, waterproofing compounds, latex backs or underlays for carpets, foam products)
2220	Manufacture of plastic products excluding footwear (bags, films, sachets, cans, flexible containers and bottles (sauces, shampoo, creams, etc.))
23	Manufacture of other non-metallic mineral products
2310	Manufacture of glass and glass articles in all forms
2320	Manufacture of ceramic products (ceramic tableware, ceramic ornaments and other decorative ceramic objects, pots, jars, and similar articles, ceramic furniture)
2330	Manufacture of cement, lime, plaster (excluding articles made of cement, plaster)
2340	Manufacture of concrete, cement, and plaster articles (precast concrete, cement or artificial stone products used in construction such as tiles, slabs, bricks, panels, plasterboard, pipes, columns, etc.)
2350	Cutting, shaping, and finishing of stone (cutting, shaping, and finishing of stone for building construction, funeral monuments, roads, or roofing, etc.; manufacture of stone furniture. This branch excludes stone cutting production and sculptor activities)
2360	Manufacture of other non-metallic mineral products, n.e.c. (e.g., mica peat, graphite, etc.)
24	Manufacture of basic metals
2410	Iron and steel metallurgy and primary processing
2420	Metallurgy and primary processing of precious metals and non-ferrous metals
2430	Foundry (manufacture of semi-finished products and various products obtained by metal casting)
25	Manufacture of metal products (excluding machinery and equipment)
2510	Metal construction and carpentry (doors, windows, beds, etc.); manufacture of tanks, reservoirs, and steam generators
2520	Manufacture of weapons and ammunition
2530	Manufacture of cutlery (spoons, knives, forks, etc.)

Code	Label
2540	Manufacture of hand tools and general hardware (sheet metal, rebar, nails, screws, bolts, nuts, etc.)
2550	Forging, pressing, stamping, and profiling of metal; powder metallurgy
2560	Treatment and coating of metals; shaping
26	Manufacture of computers, electronic, and optical products
2610	Manufacture of office machinery and computer equipment (computers, printers, other peripheral equipment)
2620	Manufacture of radio, television, and communication equipment (mobile phones, etc.)
2630	Manufacture of medical, precision, optical, and watchmaking instruments
27	Manufacture of electrical equipment
2700	Manufacture of electrical machinery and equipment (motors, generators and transformers, batteries, accumulators, cables and wiring devices, fiber optic cables, electronic and electrical wires and cables, household appliances)
28	Manufacture of machinery and equipment, n.e.c.
2810	Manufacture of office machinery and equipment, excluding computers and peripheral equipment (calculators, typewriters, binding machines, coin counting machines, pencil sharpeners, punches, photocopiers, etc.)
2820	Manufacture of furnaces and burners
2830	Manufacture of other general-purpose machinery (engines, turbines, hydraulic equipment, pumps, compressors, plumbing fixtures, lifting and handling equipment)
2840	Manufacture of agricultural and forestry machinery (tractors, tillers, mowers, agricultural machinery for soil preparation, crop planting and fertilizer distribution, harvesting and threshing machines, milkers, agricultural sprayers)
2850	Manufacture of machinery for mining, quarrying, and construction (continuous-action lifting and transport equipment for underground work, machines and apparatus for probing, cutting, drilling, and tunneling galleries, machines and apparatus for mineral processing by screening, sorting, separation, washing, crushing, grinding, etc.)

Code	Label
2860	Manufacture of machinery for food processing, beverages (manufacture of agricultural dryers, cream separators, manufacture of presses and crushers, stomping machines for the production of wine, cider, fruit juices, etc., machines for bakery, pastry, biscuits)
2870	Manufacture of machinery for tobacco
2880	Manufacture of machinery for the textile, apparel, and leather industries
2890	Manufacture of other specific-use machines (specific-use manufacturing machines not classified elsewhere)
29	Construction of motor vehicles, trailers, and semi-trailers
2900	Construction of motor vehicles
30	Manufacture of other transport equipment
3010	Shipbuilding, aircraft, and railroad construction and repair
3020	Manufacture of motorcycles and vehicles for the disabled
3030	Manufacture of bicycles and other non-motorized devices (tricycles, etc.)
3040	Manufacture of other transport equipment (military combat vehicles, etc.)
31	Manufacture of wooden furniture and mattresses
3110	Manufacture of wooden furniture (armchairs, beds, tables, chairs, wardrobes, etc.)
3120	Manufacture of wooden doors and windows
3130	Manufacture of mattresses
32	Other manufacturing activities
3210	Manufacture of jewelry and similar articles
3220	Manufacture of musical instruments, toys, games, and sports articles
3230	Other manufacturing activities, n.e.c.
33	Repair and installation of machinery and equipment
3310	Repair of metal products, machinery, and equipment
3320	Installation of machinery and equipment for industry

Code	Label
35	Production and distribution of electricity, gas, steam, and air conditioning
3510	Production and distribution of electricity
3520	Production of gas; distribution through pipelines of gaseous fuels
3530	Production and distribution of steam and air conditioning
36	Water collection and treatment, water distribution
3600	Water collection and treatment, water distribution
37	Sewage system
3700	Sewage system
38	Waste collection, treatment and disposal activities; materials recovery
3810	Waste collection
3820	Waste treatment and disposal
3830	Materials recovery
39	Remediation activities and other waste management services
3900	Remediation activities and other waste management services (sanitation, street cleaning, and waste management)
41	Construction of buildings
4100	Construction of buildings
42	Civil engineering
4210	Construction of roads and railways
4220	Installation of collective equipment projects (bridges, etc.)
4230	Other civil engineering projects
43	Specialized construction activities
4310	Demolition and site preparation

Code	Label
4320	Electrical installation works (wiring and electrical accessories, telecommunications wiring, computer network and television wiring, including fiber optics, satellite dishes, lighting systems, fire alarm systems, burglar alarm systems, street lighting and electrical signals, airport runway lighting systems, etc.)
4330	Installation works for plumbing, heating, and air conditioning equipment (heating systems (electricity, gas, and oil), furnaces, cooling towers, non-electric solar energy collectors, plumbing and sanitary equipment, ventilation equipment and ducts, refrigeration or air conditioning, gas installations, steam pipelines, sprinkler systems for fire, lawn sprinkler systems, etc.)
4340	Other installation works (installations in buildings or other construction projects such as elevators, escalators, automatic and revolving doors, electrical conductors, vacuum cleaning systems, installation of industrial machinery, etc.)
4350	Finishing works
4360	Rental of construction equipment with operators
45	Wholesale and retail trade, repair of motor vehicles and motorcycles
4510	Trade of motor vehicles
4520	Maintenance and repair of motor vehicles
4530	Trade of motor vehicle parts and accessories
4550	Trade of motorcycles
4540	Repair and maintenance of motorcycles
4560	Trade of bicycles and other means of transportation
4570	Repair of bicycles and other means of transportation
46	Wholesale trade excluding motor vehicles and motorcycles
4610	Wholesale trade intermediaries (commission agents, merchandise brokers, and all wholesalers acting on behalf of and for the account of others)
4620	Wholesale trade of raw agricultural products, live animals, food products, beverages, and tobacco
4630	Wholesale trade of household articles (textiles, clothing, footwear, other household items)

Code	Label
4640	Wholesale trade of computers, peripheral equipment, and software
4650	Wholesale trade of agricultural machinery, equipment, and supplies
4660	Wholesale trade of industrial machinery, equipment, and supplies
4670	Wholesale trade of other machinery and equipment
4680	Other wholesale trade
47	Retail trade excluding motor vehicles and motorcycles
4711	General retail trade (groceries, stores, groceries, etc.)
4712	Retail trade of tobacco
4721	Retail trade of cereals
4722	Retail trade of tubers, plantains
4723	Retail trade of fruits and vegetables
4724	Retail trade of fresh livestock products (meat, fish, eggs)
4725	Retail trade of other food products
4730	Retail trade of automotive fuels
4741	Retail trade of computers, peripheral units, software, and telecommunications equipment
4742	Retail trade of audio and video equipment in specialized stores
4751	Retail trade of fabrics
4752	Retail trade of new clothing and footwear (excluding second-hand items)
4753	Retail trade of second-hand clothing and footwear (thrift stores, etc.)
4754	Retail trade of hardware, paint, and glass
4755	Retail trade of household appliances, household furniture
4760	Retail trade of books, newspapers, and stationery articles
4770	Retail trade of other products (including retail trade intermediary activities)
49	Land transport, pipeline transport

Code	Label
4910	Rail transport
4920	Road passenger transport
4930	Road freight transport
4940	Transport by pipelines (transport of gas, liquids, water, sludge, and other products by pipelines, operation of pumping stations)
50	Water transport
5010	Maritime and coastal transport (excursion boats, cruise ships, tourist boats, ferries, water taxis, etc.)
5020	Inland waterway transport (transport on rivers, canals, lakes, other inland waterways)
51	Air transport
5100	Air transport
52	Storage and auxiliary transport activities
5210	Handling and storage (loading and unloading of goods or passenger luggage regardless of the mode of transport used)
5220	Operation of transport infrastructure
5230	Transport organization activities
53	Postal and courier activities
5310	Postal activities (collection, sorting, transport, and delivery of national or international letters and parcels (similar to mail) and packages by postal services operating under a universal service obligation, collection of letters/mail and parcels in public mailboxes or post offices, distribution, and delivery of mail and parcels)
5320	Courier activities (collection, sorting, transport, and delivery of domestic or international mail, parcels, and packages (similar to mail) by companies not acting under a universal service obligation, home delivery services)
55	Accommodation
5500	Hotels, inns, and other short-term accommodation
56	Food service and beverage consumption activities

Code	Label
5610	Restaurants, maquis, and others
5620	Kiosk dining activities
5630	Drinking establishments
58	Publishing activities
5800	Publishing of books, directories, and mailing lists, newspapers, professional journals, and periodicals
59	Activities related to the production of motion pictures, videos, television programs, sound recordings, and music publishing
5910	Motion picture, video, and television program production activities
5920	Sound recording and music publishing activities
60	Programming and broadcasting activities via radio, television, internet
6010	Radio broadcasting
6020	Television program production and broadcasting activities
6030	Internet content production and broadcasting activities
61	Telecommunications
6110	Cable telecommunications activities
6120	Wireless telecommunications activities
6130	Satellite telecommunications activities
6140	Other telecommunications activities
62	Computer programming; consultancy and related activities
6210	IT consultancy and software development
6220	Maintenance of computer hardware and office equipment
6230	Other IT activities
63	Information services activities
6310	Data processing, hosting, and related activities

Code	Label
6320	Web portals
6330	News agency activities
6340	Other information service activities, n.e.c.
64	Financial services activities, except insurance and pension funds
6410	Monetary intermediation (central banking and other intermediation services)
6420	Holding company activities
6430	Trusts, funds, and similar financial entities (investment fund activities)
6440	Money transfer services
65	Insurance, reinsurance, and pension funds activities, except compulsory social security
6500	Insurance, reinsurance, and pension funds activities (except social security)
66	Auxiliary activities to financial services and insurance
6610	Financial auxiliaries activities (operation and supervision of financial markets by public entities such as commodity exchange contracts, futures commodity exchange contracts, etc., brokerage activities)
6620	Insurance auxiliaries activities (claims adjustment and settlement, insurance agent and broker activities, actuary services, etc.)
68	Real estate activities
6810	Real estate activities with own properties (housing services, leasing of other real estate)
6820	Real estate agency activities
69	Legal and accounting activities
6910	Law firm activities
6920	Legal activities (bailiffs, notaries, etc.)
6930	Accounting, auditing, and tax consultancy activities
70	Head office activities; management consultancy activities
7010	Head office activities

Code	Label
7020	Management consultancy activities
71	Architectural and engineering activities; testing and technical analysis activities
7100	Architectural, engineering, and other technical activities
72	Scientific research and development
7210	Experimental research and development in physical and natural sciences and engineering
7220	Experimental research and development in social sciences and humanities
73	Advertising and market research
7310	Advertising agencies
7320	Market research firms
74	Other professional, scientific, and technical activities
7410	Model design activities
7420	Photographic activities
7490	Other scientific and technical activities, n.e.c.
75	Veterinary services activities
7500	Veterinary activities
77	Rental activities
7710	Rental of transport equipment
7720	Rental of machinery and equipment n.e.c.
7730	Rental of personal and household goods n.e.c.
78	Employment-related activities
7810	Placement agency activities
7820	Temporary employment agency activities
7890	Other personnel supply activities
79	Travel agency, tour operator, reservation service, and related activities

Code	Label
7900	Travel agency, tour operator, reservation service, and related activities
80	Investigation and security activities
8010	Private security services
8020	Security system services
8030	Investigation activities (detectives, etc.)
81	Building services activities, landscape architecture
8110	Support activities for integrated installations
8120	General cleaning of buildings
8130	Other building and industrial cleaning activities
8140	Green space maintenance services
82	Administrative, secretarial, and other business support activities
8210	Integrated administrative support services
8220	Photocopying, scanning, document preparation, and other specialized office support activities
8230	Call center activities
8240	Organization of conventions and trade shows
8250	Debt collection and credit agency activities
8260	Packaging activities
8290	Other business services, n.e.c.
84	Public administration and defense; compulsory social security
8410	General, economic, and social administration activities
8420	Public prerogative activities (Foreign affairs, defense activities, law and order, and public security activities)
8430	Compulsory social security (compulsory social security activities)
85	Education

Code	Label
8510	Pre-primary and primary education activities
8521	General secondary education activities
8522	Technical and vocational secondary education activities
8530	Higher education activities
8541	Sports and recreation education activities
8542	Cultural education activities
8549	Other education activities, n.e.c.
8550	Educational support activities
86	Health-related activities
8610	Hospital activities
8620	Medical and dental practice activities
8690	Other health-related activities
87	Healthcare activities in establishments for the mentally ill, elderly
8710	Healthcare facilities in hospitals
8720	Healthcare activities for the mentally retarded, mentally ill, and drug addicts
8730	Healthcare activities in hospital establishments for the elderly and disabled
8790	Other healthcare activities in hospital establishments
88	Social work activities without accommodation
8800	Social work activities without accommodation for the elderly and disabled (e.g., directly at the client's home)
90	Creative activities, arts, and entertainment
9000	Creative activities, arts, and entertainment
91	Library, archive, museum, and other cultural activities
9110	Library and archive activities

Code	Label
9120	Museum activities and operation of historical sites and monuments
9130	Botanical and zoological garden activities and nature reserves
92	Gambling and betting activities
9200	Gambling and betting activities
93	Sports and recreation activities
9310	Operation of sports facilities, sports club activities, and other sports activities
9320	Activities of amusement parks and theme parks, other recreational and leisure activities, n.e.c.
94	Activities of membership organizations
9410	Activities of economic, employer, and professional membership organizations
9420	Activities of trade unions
9490	Activities of other membership organizations (religious, political, etc.)
95	Repair of computers and personal and household goods
9511	Repair of computers and peripheral equipment
9512	Repair of communication equipment
9521	Repair of consumer electronics
9522	Repair of household appliances and home and garden equipment
9523	Repair of footwear and leather goods
9524	Repair of furniture and home furnishings
9529	Repair of other personal and household goods
96	Other personal service activities
9611	Washing and ironing of laundry
9612	Washing and dry cleaning of textiles
9620	Hairdressing and other beauty treatments
9630	Funeral and related activities

Code	Label
9690	Other personal service activities, n.e.c.
97	Activities of private households employing domestic staff
9700	Activities of households as employers of domestic staff
98	Undifferentiated goods and services producing activities of private households for own use
9800	Undifferentiated goods and services producing activities of private households for own use
99	Activities of extraterritorial organizations and bodies
9910	Activities of embassies or consulates
9920	Activities of international organizations

Appendix 4: Branch of professions/level 1

Code	Label
0	Military professions
1	Directors, executive managers, and administrators
2	Intellectual and scientific professions
3	Intermediate professions
4	Clerical support workers
5	Service and sales workers
6	Farmers and skilled workers in agriculture, forestry, and fishing
7	Skilled trades in industry and craftsmanship
8	Plant and machine operators, and assembly workers
9	Elementary occupations

Appendix 1 : Branch of professions/level2

Code	Label
01	Officers of the armed forces
02	Non-commissioned officers of the armed forces
03	Other members of the armed forces
11	General directors, senior executives, and members of the executive and legislative bodies
12	Directors of administrative and commercial services
13	Directors and senior managers of production and specialized services
14	Directors and managers of hospitality, catering, trade, and other services
21	Specialists in technical sciences
22	Health specialists
23	Teaching specialists
24	Business administration specialists
25	Information and communication technology specialists
26	Justice, social sciences, and culture specialists
31	Intermediate professions in sciences and techniques
32	Intermediate health professions
33	Intermediate finance and administration professions
34	Intermediate professions in legal services, social services, and related fields
35	Information and communication technicians
41	Office employees
42	Receptionists, tellers, and related employees
43	Accounting and supply service employees
44	Other administrative employees
51	Direct service personnel for individuals
52	Merchants and salespersons

53	Care personnel
54	Protection and security service personnel
61	Farmers and skilled workers in commercial agriculture
62	Skilled professions in forestry, fishing, and hunting
63	Subsistence farmers, fishers, hunters, and gatherers
71	Skilled building trades and related professions, except electricians
72	Skilled trades in metallurgy, mechanical construction, and related fields
73	Skilled trades in craftsmanship and printing
74	Trades in electricity and electrotechnics
75	Trades in food processing, woodworking, clothing, and other skilled industrial and craft professions
81	Machine and fixed installation operators
82	Assembly workers
83	Vehicle drivers and operators of heavy lifting and handling equipment
91	Domestic helpers
92	Laborers in agriculture, fishing, and forestry
93	Laborers in mining, construction, public works, manufacturing, and transportation industries
94	Food production assistants
95	Street vendors and other street trades and related workers
96	Garbage collectors and other unskilled workers

Appendix 2 : Branch of professions/level 3

Code	Label
011	Armed Forces Officers
021	Non-Commissioned Officers of the Armed Forces
031	Other Members of the Armed Forces
111	Members of Legislative Bodies and Senior Officials of Public Administration
112	General Managers of Enterprises
121	Administrative Service Directors
122	Directors and Managers, Sales, Marketing, and Development
131	Directors and Managers, Agriculture, Forestry, and Fishing
132	Directors and Managers, Manufacturing, Mining, Construction, and Distribution
133	Directors and Managers, Information and Communication Technologies
134	Managers of Specialized Services
141	Hotel and Restaurant Directors and Managers
142	Retail and Wholesale Trade Directors and Managers
143	Other Directors and Managers
211	Physicists, Chemists, and Related Professionals
212	Mathematicians, Actuaries, and Statisticians
213	Life Sciences Specialists
214	Technical Sciences Specialists (except Electrotechnics)
215	Electrotechnics Engineers
216	Architects, Urban Planners, Surveyors, and Designers
221	Doctors
222	Senior Nurses and Midwives
223	Specialists in Traditional and Complementary Medicine
224	Paramedical Practitioners

225	Veterinarians
226	Other Health Professionals
231	University and Higher Education Teachers
232	Technical and Vocational Education Teachers
233	Secondary Education Teachers
234	Primary School Teachers and Early Childhood Educators
235	Other Teaching Professionals
241	Finance Specialists
242	Administrative Function Specialists
243	Sales, Marketing, and Public Relations Specialists
251	Software and Multimedia Designers and Analysts
252	Database and Computer Network Specialists
261	Jurists
262	Archivists, Librarians, Documentalists, and Related Professionals
263	Social Science and Clergy Specialists
264	Authors, Journalists, and Linguists
265	Creative and Performing Artists
311	Physical and Technical Sciences Technicians
312	Supervisors, Mining, Manufacturing, and Construction
313	Technicians, Industrial Process Control
314	Life Sciences Technicians and Related Workers
315	Maritime and Air Transport Technicians
321	Medical and Pharmaceutical Technicians
322	Intermediate Level Nurses and Midwives
323	Traditional and Complementary Medicine Practitioners
324	Veterinary Technicians and Assistants

325	Other Intermediate Health Professions
331	Intermediate Finance and Mathematics Professions
332	Sales and Purchasing Agents, Brokers
333	Commercial Service Agents
334	Administrative and Specialized Secretaries
335	Intermediate Law Enforcement Professions and Related Workers
341	Intermediate Legal, Social Services, and Religious Professions
342	Sports and Fitness Sector Workers
343	Intermediate Professions in Culture, Creative Arts, and Culinary Activities
351	IT Operations and User Support Technicians
352	Telecommunications and Broadcasting Technicians
411	General Office Clerks
412	Secretaries (General Functions)
413	Keyboard Operators
421	Cashiers, Tellers, and Related Clerks
422	Client Information Clerks
431	Accounting and Financial Clerks
432	Supply, Scheduling, and Transport Clerks
441	Other Administrative Employees
511	Travel Attendants and Related Workers (Transport and Tourism)
512	Cooks
513	Waiters and Bartenders
514	Hairdressers, Beauticians, and Related Workers
515	Stewards, Housekeepers, and Concierges
516	Other Personal Service Workers
521	Market Salespersons and Street Food Vendors

522	Shop Salespersons and Assistants
523	Cashiers and Ticket Clerks
524	Other Sales Workers
531	Childcare Workers and Teacher's Aides
532	Caregivers
541	Protective and Security Services Personnel
611	Farmers and Skilled Workers in Commercial Crop Production
612	Breeders and Skilled Workers in Commercial Livestock Production and Related Workers
613	Skilled Workers in Commercial Crop and Livestock Production
621	Forestry Workers and Related Professions
622	Fishers, Hunters, and Trappers
631	Subsistence Farmers
632	Subsistence Livestock Farmers
633	Subsistence Crop and Livestock Farmers
634	Subsistence Fishers, Hunters, Trappers, and Gatherers
711	Skilled Construction Trades Workers (Structural) and Related Workers
712	Skilled Construction Trades Workers (Finishing) and Related Workers
713	Painters, Plasterers, and Related Workers
721	Foundry Mold Makers, Welders, Sheet Metal Workers, Metal Frame Assemblers, and Related Workers
722	Blacksmiths, Toolmakers, and Related Workers
723	Mechanics and Machinery Repairers
731	Craft Trades Workers
732	Printing Trades Workers
741	Installers and Repairers, Electrical Equipment
742	Installers and Repairers, Electronics and Telecommunications
751	Skilled Food Processing Trades Workers and Related Workers

752	Skilled Wood Processing Trades Workers, Cabinetmakers, and Related Workers
753	Skilled Garment and Related Trades Workers
754	Other Skilled Industrial and Craft Trades Workers
811	Mining and Mineral Extraction Machine Operators
812	Metal Processing and Surface Treatment Machine Operators
813	Chemical and Photographic Products Manufacturing Machine Operators
814	Rubber, Plastic, and Paper Products Manufacturing Machine Operators
815	Textile, Fur, and Leather Products Manufacturing Machine Operators
816	Food and Related Products Manufacturing Machine Operators
817	Paper Manufacturing and Woodworking Machine Operators
818	Other Fixed Machinery and Installation Operators
821	Assembly Workers
831	Locomotive Drivers and Related Workers
832	Automobile, Van, and Motorcycle Drivers
833	Heavy Truck and Bus Drivers
834	Mobile Equipment Operators
835	Deckhands and Related Workers
911	Domestic Helpers and Housekeepers in Homes and Hotels
912	Vehicle and Window Washers, Laundry and Other Manual Cleaners
921	Agricultural, Fishing, and Forestry Laborers
931	Mining, Construction, and Public Works Laborers
932	Manufacturing Laborers
933	Transport and Storage Laborers
941	Food Manufacturing Assistants
951	Street Vendors and Related Workers
952	Non-Food Street Vendors

961	Garbage Collectors
962	Other Elementary Occupations

Appendix 3:: Branche of professions/level 4

Code	Label
0110	Armed Forces Officers
0210	Non-Commissioned Officers of the Armed Forces
0310	Other Members of the Armed Forces
1111	Members of Legislative Bodies
1112	Senior Officials of Public Administration
1113	Traditional Chiefs and Village Chiefs
1114	Leaders and Senior Officials of Specialized Organizations
1120	General Managers of Enterprises
1211	Directors and Managers, Financial Services
1212	Directors and Managers, Human Resources
1213	Directors and Managers, Strategy and Planning
1219	Directors of Administrative Services not Classified Elsewhere
1221	Directors and Managers, Sales and Marketing
1222	Directors and Managers, Advertising and Public Relations
1223	Directors and Managers, Research and Development
1311	Directors and Managers, Agriculture and Forestry
1312	Directors and Managers, Aquaculture and Fishing
1321	Directors and Managers, Manufacturing Industry
1322	Directors and Managers, Mining
1323	Directors and Managers, Construction
1324	Directors and Managers, Supply, Distribution, and Related Fields
1330	Directors and Managers, Information and Communication Technologies
1341	Managers, Childcare
1342	Managers, Health Services

1343	Managers, Services for the Elderly
1344	Managers, Social Services
1345	Managers, Education
1346	Directors and Managers, Bank Branches, Financial Services, and Insurance
1349	Other Managers, Specialized Services not Classified Elsewhere
1411	Hotel Directors and Managers
1412	Restaurant Directors and Managers
1420	Retail and Wholesale Trade Directors and Managers
1431	Directors and Managers, Sports, Recreation, and Cultural Centers
1439	Directors and Managers, Services not Classified Elsewhere
2111	Physicists and Astronomers
2112	Meteorologists
2113	Chemists
2114	Geologists and Geophysicists
2120	Mathematicians, Actuaries, and Statisticians
2131	Biologists, Botanists, Zoologists, and Related Professionals
2132	Agronomists and Related Professionals
2133	Environmental Protection Specialists
2141	Specialists, Technical Sciences of Production and Industry
2142	Civil Engineers
2143	Environmental Engineers
2144	Mechanical Engineers
2145	Chemical Engineers
2146	Mining Engineers, Metallurgists, and Related Professionals
2149	Specialists, Technical Sciences not Classified Elsewhere
2151	Electrical Engineers

2152	Electronics Engineers
2153	Telecommunications Specialists
2161	Architects, Construction
2162	Landscape Architects
2163	Product and Fashion Designers
2164	Urban Planners and Traffic Engineers
2165	Cartographers and Surveyors
2166	Graphic and Multimedia Designers
2211	General Practitioners
2212	Specialist Doctors
2221	Senior Nurses
2222	Midwives
2230	Specialists in Traditional and Complementary Medicine
2240	Paramedical Practitioners
2250	Veterinarians
2261	Dentists
2262	Pharmacists
2263	Specialists in Environmental Health, Hygiene, and Occupational Health
2264	Physiotherapists
2265	Dietitians and Nutrition Specialists
2266	Audiologists and Speech Therapists
2267	Optometrists
2269	Health Specialists not Classified Elsewhere
2310	University and Higher Education Teachers
2320	Technical and Vocational Education Teachers
2330	Secondary Education Teachers

2341	Primary School Teachers
2342	Early Childhood Educators
2351	Specialists in Teaching Methods
2352	Special Education Teachers