

# **Basic Information Document**

## **Albania Living Standard Measurement Survey 2005**

The World Bank  
Albania Institute of Statistics (INSTAT)

July 2006

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## **I. Introduction and background**

Over the past decade, Albania has been seeking to develop the framework for a market economy and more open society. It has faced severe internal and external challenges in the interim – extremely low income levels and a lack of basic infrastructure, the rapid collapse of output and inflation rise after the shift in regime in 1991, the turmoil during the 1997 pyramid crisis, and the social and economic shocks accompanying the 1999 Kosovo crisis. In the face of these challenges, Albania has made notable progress in creating conditions conducive to growth and poverty reduction.

In the process leading to its first Poverty Reduction Strategy (that is the National Strategy for Socioeconomic Development, now renamed the National Strategy for Development and Integration), the Government of Albania reinforced its commitment to strengthening its own capacity to collect and analyze on a regular basis the information it needs to inform policy-making.

Multi-purpose household surveys are one of the main sources of information to determine living conditions and measure the poverty situation of a country. They provide an indispensable tool to assist policy-makers in monitoring and targeting social programs. In its first phase (2001-2006), this monitoring system included the following data collection instruments: (i) Population and Housing Census; (ii) Living Standards Measurement Surveys every 3 years, and (iii) annual panel surveys.

The Population and Housing Census (PHC) conducted in April 2001, provided the country with a much needed updated sampling frame which is one of the building blocks for the household survey structure. The focus during this first phase of the monitoring system is on a periodic LSMS (in 2002 and 2005), followed by panel surveys on a sub-sample of LSMS households (in 2003, and 2004), drawing heavily on the 2001 census information.

A poverty profile based on 2002 data (the most recent available) showed that some 25 percent of the population are poor, with many others vulnerable to poverty due to their incomes being close to the poverty threshold. Income related poverty is compounded by poor access to basic infrastructure (regular supply of electricity, clean water), education and health services, housing, etc.

The 2005 LSMS was in the field between May and early July, with an additional visit to agricultural households in October, 2005. The survey work was undertaken by the Living Standards unit of INSTAT, with the technical assistance of the World Bank. The present document provides detailed information on this survey. Section II summarizes the content of the survey instruments used. Section III focuses on the details of the sample design. Section IV describes the pilot test and fieldwork procedures of the survey, as well as the training received by survey staff. Section V reviews data entry and data cleaning issues. Finally, section VI contains a series of annotations that all those interested in using the data should read.

## II. Survey Instruments

Four survey instruments were used to collect information for the 2005 Albania LSMS: a household questionnaire, a diary for recording household food consumption, a community questionnaire, and a price questionnaire.

The **household questionnaire** included all the core LSMS modules as defined in Grosh and Glewwe (2000)<sup>1</sup>, plus additional modules on migration, fertility, subjective poverty, agriculture, non-farm enterprises, and social capital. Geographical referencing data on the longitude and latitude of each household were also recorded using portable GPS devices. Geo-referencing will enable a more efficient spatial link among the different surveys of the system, as well as between the survey households and other geo-referenced information.

The choice of the modules was aimed at matching as much as possible the specificity of Albania in terms of data needs, as driven by pressing policy questions. Their design (e.g. questions asked, their sequence, units and time-frames used) was also adapted to fit the Albanian reality.

Household membership in this survey is defined as being away from the household for less than six months. Deceased individuals, lodgers, hired workers and servants are never considered household members. Guests who stay with the household for six months and over, infants of less than six months, new arrivals (such as newly weds) are considered household members. The head of the household is always considered a member of the household irrespective of the time s/he spent away from it .

The questionnaire was divided in two sections, and was administered to households in two visits, one section per visit. During the second visit the interviewer would also collect additional information of use for the eventual tracking of the household in the next waves of the panel. This information was collected on a sheet provided for this purpose at the beginning of Section 2 in the main questionnaire. Table 1 provides a detailed description of the content of the modules of the household questionnaire. Information on how to obtain copies of the questionnaire (and all the other available documentation) are provided in Annex 1.

The **Diary for Recording Daily Household Consumption** (also known as the **booklet**) was left with the household by the interviewer during the first visit for the household to compile, and collected during the second visit. Upon collection, interviewers took care of checking the entries (also with the help of a checklist provided at the end of the booklet) and correct them as appropriate with the help of the most knowledgeable person in the household.

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<sup>1</sup> The core LSMS modules, all included in the 2002 Albania LSMS are: metadata, household roster, dwelling and utilities, education, health, employment, transfers and social assistance, other income sources, and consumption.

The diary consists of:

- A. A cover page (for metadata information);
- B. Instructions for the household on how to record consumption;
- C. Fourteen (i.e. one per day) three-part sections for the recording of (1) food products purchased daily; (2) non-purchased food products consumed by the household (e.g. from own production or payments in kind); (3) food eaten outside the home (e.g. at work, in restaurants);
- D. A checklist for use by the interviewer with a list of the 14 main food products consumed in Albania.
- E. Bread Questionnaire

A specific column was provided for the household to record the 'reference period' for any purchases of food. The checklist was compiled by the interviewer, with the help of the most knowledgeable person in the household, upon collection of the diary. Interviewers were instructed to check, for 14 main food staples, whether any consumption of the item had been recorded in the diary. Whenever an item had not been recorded the interviewer would ask the respondent to report whether the item (a) had not been used in the 14 day period, or (b) had been consumed but the household had forgotten to record its consumption, or else (c) had been consumed by the household drawing on stocks purchased or produced outside the 14 day period.

If the inclusion of an item had simply been forgotten the interviewer would then fill the appropriate section of the diary by asking the household to recall the details of that consumption. If the household reported consuming an item purchased before the beginning of the 14 day period, then information on the frequency of purchase, quantity, unit of measure and value of the purchase were recorded in the columns provided to this end in the checklist.

Data users should therefore make sure of using the checklist, as well as column 7 in the table on daily purchases, to supplement the food consumption information included in the main part of the food diary. The rest of the questionnaire was filled in two stages. One half of the questionnaire was filled at the initial visit to the household and the other half at the second visit. In order to allow for completion of the cropping season, and the identification of agricultural households, the agricultural module was sent out in the Fall 2005 (to be precise October), only to the households that claimed to have any plots of land or livestock.

The **Community Questionnaire** Information was collected in the Fall of 2005 for Tirana, Urban (other than Tirana), and Rural areas with a few slightly different questions for each. When using data from these questions the analyst should make sure of integrating information that appears in different variables in the dataset. In a few cases in which a question did not make sense in an urban context the question was only asked in rural communities.

In rural areas the community was normally defined as a village and the inhabited area surrounding it. In urban areas the definition was less straightforward, and it was decided on a case by case basis by the core team and the supervisors with the objective of selecting areas that would be understood as communities by the respondents, from time to time adopting boundaries matching those of administrative partitions of the urban areas,

the neighborhood or sector. In Tirana the community was identified with the *mini-bashkia* level of the administrative partition of the city.

The supervisors were instructed to administer the questionnaire to a group of persons reputed to be best informed about each module within a community (e.g. teachers for the education questions, doctors or hospital managers for health related ones). Whenever possible, the questionnaire was administered in groups and the prevailing response (in case of differing views) was recorded. When this was not possible, respondents were interviewed separately. In a majority of cases, however, the questionnaire was in practice administered to only one respondent, generally an elected or appointed community leader.

Table 2 provides a detailed description of the content of the modules of the community questionnaire. Again, information on how to obtain copies of the questionnaire (and all the other available documentation) is provided in Annex 1.

The fourth survey instrument used was the **price questionnaire**. The price questionnaire was sent out at the same time as the core questionnaire, that is, during May-July 2005, in order to obtain the prices faced by households at the same time that the field work was going on.

Data for 96 different items were collected in each community. Prices were generally collected in only one outlet, except for urban communities for which two or three price observations are available. Thirteen of the latter are urban areas in which the monthly price data collection regularly is done by INSTAT for the consumer price index was used.

The **coding** for the survey made use of ISCO 88 and NACE codes for occupations and industry activities respectively, and of COICOP codes for the food item recorded in the 14 day diary. The complete list of codes used can be found at the end of this document as Annex 4.

### III. Sample Design<sup>2</sup>

#### 1. The 2002 LSMS sampling design

The sampling design for the *Living Standard Measurement Survey* (LSMS) to be carried out in Albania in 2005 is strictly related to the one used in 2002. In 2002 it was considered a stratified two stage cluster sampling design in which the Primary Sampling Units (PSUs) were represented by the census Enumeration Areas (EAs) while the Second Stage Sampling units (SSUs) were the households (denoted as HUs). The EAs were stratified according to geographic criteria:

- i) large geographic areas: “*Mountain Area*”, “*Coastal Area*” and “*Central Area*”;

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<sup>2</sup> See Annex 5.

- ii) Their belonging to “*Urban*” area (big towns), “*Other Urban*” areas (i.e. small towns) and “*Rural*” areas.
- iii) Tirana town was considered as a separate stratum.

The 2002 LSMS final sample consisted of 3,600 households; 8 households selected for each of the 450 EAs selected at the first stage of the sampling. The selection of the EAs within each stratum was carried out by means of a Probability Proportional to Size (PPS) design; the measure of size was represented by the number of households living within each EA.

The second stage units were selected by means of systematic sampling. In particular, within each selected PSU, 12 HUs were initially selected, 8 of them formed the base sample while the remaining 4 were considered as available substitutes.

As far as Tirana town was concerned the PSUs were selected by means of a systematic sampling procedure, rather than a PPS scheme; before the selection the EAs were ordered according to their socio-economic characteristics. Table 4 shows the main features of the 2002 LSMS sample.

It is important to remember that in 2002 the selection of the PSUs was carried out after a suitable arrangement of the EAs in order to split the largest ones in two or more EAs with approximately 70 HUs. For the same reason the smallest EAs were joined together according to geographic criteria.

## **2. The hypotheses for the 2005 LSMS sample**

Two different hypotheses have been taken into account for the 2005 survey:

- i) Select a new sample of HUs within the same 450 PSUs selected in the 2002 first stage sampling.
- ii) Select a new sample of PSUs and SSUs using a design analogous to the one used in 2002.

Hypothesis (i) does not require the first stage sampling selection. As far as the selection of the SSUs is concerned, it would require an update (*listing*) of the HUs living within each EA in order to take into account changes to the composition/structure of EAs (e.g. due to the migration flows). These listing operations would also be of help in determining the actual representativeness of the panel section of sample of households selected in 2002. In practice, by joining together the households in the panel with the households of the new sample, the overall sample would consist of 5,400 HUs (1,800 panel HUs + 3,600 new HUs ). Unfortunately, this last scenario is likely to affect negatively the efficiency of final estimates because of the intra-class correlation (homogeneity among households belonging to the same EA). The most serious problem related to the hypothesis (i) is the representativeness of the 450 EAs selected in the 2002 at the present moment.

This problem would persist even with the hypothesis (ii) if the first stage sample is selected from the same frame built up for the 2002 survey, i.e. without updating the frame

of EAs. As far as the SSUs selection is concerned, the listing of the HUs living within each sample EA is still necessary.

In this setting, it would be difficult to join together the panel section of the old survey with the new sample. In order to improve the representativeness of the panel households from the 2002 survey, their original sample weight should be adjusted by using methods such as the post-stratification.

These problems related to the two different working hypotheses concerning the new sample were deeply discussed with the LSMS staff during the visit to Albania's National Statistical Institute (INSTAT) the last January (24-27 January 2005). Finally, it was decided to carry out a new survey (hypothesis (ii)). This choice does not seem to affect the survey operations scheduling. In fact, the longest operation, i.e. the listing of the HUs living within each selected PSU, has to be carried out whatever sampling hypothesis is considered.

The selection of a completely new sample can provide a representative sample of households if the PSUs selection is preceded by an update of the frame of EAs, focused to those areas subject to marked demographic changes due to migration flows (e.g. the town of Tirane).

Obviously, the decision of selecting a completely new sample represent the choice that better fits to the further selection of the sample for the Household Budget Survey to be carried out in the future.

### **3. Frame updating and sample selection for the 2005 LSMS.**

The sampling design chosen for the 2005 LSMS is similar to the one used in 2002. The sizes of the first and second stage samples are essentially the same as those for the 2002 survey. This happened for sample allocation too.

The selection of the new sample of 450 EAs has been carried out using the frame of EAs resulting from the Population Census at the end of editing stage. Before selecting the sample of PSUs, EAs from Tirana and Durres have been quickly updated (quick counts) to take into account the migration flows, which were particularly marked for these towns. The same operation has been carried out on the Bathore EAs'. At the Census time the Bathore represented a rural village located in Tirana's district while at the moment, due to the great expansion of Tirane town, represents a zone of Tirane.

This new frame of EA has been processed, as in 2002, in order to split the large EAs and join together the smallest ones. Then EAs have been grouped in strata according to the same geographic criteria considered in the 2002 survey. As far as Bathore is concerned, its EAs have been classified as Tirane's EAs. Table 5 shows how the new sample has been allocated within strata.

Note that Tirane has been oversampled, in particular a further sample of 25 EAs has been selected by considering only the list of the EAs located on the town's borders. The first stage selection of EAs has been completed in June 2005.

#### 4. The selection of the second stage sampling units

The second stage sample selection will follow the updating operations of the 455 sample EAs chosen at the first stage. The selection of the HUs within each chosen EA will follow the same procedure used in 2002: an initial sample of 12 HUs is selected according to the systematic sample, then 8 of them (selected again using systematic sample) are chosen in the base sample, while the remaining 4 are the available substitutes.

As far as the listing of the HUs belonging to a given EA is concerned, there emerged the problem of the existence of EAs that do not have a geographic boundary. In fact, if an EA does not have some geographic boundaries it becomes difficult to list the HUs belonging to it. Sometimes the problem can be solved by asking help to the head of the village. In fact, he can perfectly know the composition of an EA. If this is not the case, a possible solution can be that of acquiring the list of all the HUs living in the village and then splitting the large EA in the same number of EA created in the 2002. The size of the final EAs should be determined in order to divide uniformly among the EAs the difference observed between the overall HUs listed in the village in 2002 and those found at the present time.

### IV. Pilot Testing, Training, Organization, and Fieldwork Procedures

#### *Pilot Test*

The updated or additional modules of the questionnaire were field tested in March-April 2005 in the urban and rural areas of Tirana, Elbasan, Lushnje and Durres by the core INSTAT team and the local teams, with the assistance of international consultants and World Bank staff. The pilot of the agricultural module was done in September 2005, the rural areas of Durres, Elbasan, and Lushnje. The questionnaire was then updated following the results of the testing

#### *Training*

The **enumerator and supervisor training** was conducted in April for two weeks near Durres. Approximately 100 people took part in the training. The training also covered logistics, the use of the GPS devices, and the plans for the fieldwork, including replacements, the numbering of PSUs and households, instructions on revisiting households. Preliminary training was done with the new enumerators that did not work in the previous LSMS.

Training for the **data entry operators** (DEOs) was conducted for a week at the beginning of May. DEOs were trained on the use of the custom data entry program developed in CS-Pro for this survey.

## *Fieldwork*

The field staff was organized into 20 teams, four of which were in Tirana. Each team had one supervisor and, generally, three enumerators. Some remote districts had one enumerator in each area of the district, while other districts that have a particularly large number of PSUs also employed a greater number of enumerators.

Supervisors from within the regional INSTAT offices were identified for the 16 teams outside Tirana, and each regional office then identified enumerators from those who had successfully worked on the previous LSMS surveys. The four Tirana teams each had a supervisor, and they in turn were supervised by a Tirana head supervisor. Each team also included a data entry operator and a driver.

The supervisors were given the list of PSUs to be completed, and then were free to schedule the visits to each household as they wished. For each PSU the supervisors were given a large envelope with the 8 questionnaires, a tracking sheet listing the households to be interviewed, with one reserve household listed on the tracking form, a listing sheet for the supervisor of the 12 selected families including the 4 reserve households, and a map of the corresponding census EA.

Each listing sheet for a selected EA included the following information:

1. Name of the district
2. Name of the commune
3. Name of the city
4. Identification of the EA based on the 2001 Census Frame
5. Cartographic address (building, entrance, apartment, nr. of family inside the apartment)
6. Postal address (building, entrance, apartment)
7. Code identifying a selected HU or a reserve unit

Each tracking form included the following information:

1. PSU number
2. Name of the commune
3. Identification of EA based on 2001 Census Frame
4. Names of the heads of households for the selected dwelling units
5. Age of the household head
6. Number of the building where the household resides
7. Space for explanation by the enumerator of the reason why it was not possible to complete any of the household interviews

In order to control more closely the number of reserve households that were used, the enumerators received only the name of the first reserve household on the tracking sheets. If the enumerator needed more than one replacement household, he had to return to the supervisor to explain why more than one replacement was needed. The enumerator had to write a full reason on the tracking sheet for the replacement – and these reasons were verified and kept in the central office in Tirana in a continuously updated Excel sheet (itself kept at central office of INSTAT). This process helped ensure the reason for using a re-serve unit was documented and provided more control on their use.

The only exception to this practice was for remote mountain villages, where the access was difficult, and it was decided to provide all four replacement names to the enumerator before the first visit.

Identification of the selected households in the field was made by using the head of household names for all the rural PSUs, because this was the only reliable method to identify the selected dwelling units when there were no street addresses. For the urban PSUs, the addresses and the name of the household head for the selected dwellings was used for the identification.. In the case when the originally selected household was not found in the dwelling, the current residing household was instead interviewed, since the dwelling rather than the household is considered as the sampling unit. The fieldwork started on May 3, with close supervision from the core team at INSTAT Tirana head office.

The enumeration was completed in two visits – the first, to complete Part 1 of the questionnaire, and to explain the food booklet that was left with the household, and the second visit at least two weeks later to collect the food booklet and to complete Part 2 of the questionnaire. The core team also paid additional visits to those enumerators whose questionnaire seemed to contain a higher number of errors - but overall the enumerators seemed to be willing and diligent.

In Tirana if some families accepted to have the main questionnaire administered, but did not want to complete the 14 day food diary. In some cases these were families with only elderly people who did not feel they could properly keep the diary. In these cases the enumerators were instructed to try and obtain information or assistance from neighbors. Supervisors discussed personally with the households all cases where there was a refusal.

The food diaries were sent to Tirana as soon as they were completed in the field. Data coders began coding the food booklets. The coding of all the food booklets was completed by a small staff in Tirana to guarantee consistency. All of the enumeration was finished by July 2005. The supervisors completed the price questionnaires in parallel with the household enumeration. The community and agriculture questionnaires were sent in the field during the month of October. The supervisors were involved in the completion of the community questionnaire.

The monitoring of the entire fieldwork process was ensured by the core team in Tirana, maintaining constant contact with the supervisors by telephone, tracking the progress and keeping apprised of any problems, and traveling to the field as necessary. Household replacements, were also constantly monitored as the fieldwork continued, to make sure that replacements be kept at a minimum. In Tirana, where the refusal rate was higher than elsewhere, one of the field supervisors revisited with the supervisor many of the households who had refused.

## V. Data Entry and Data Cleaning

### *Data Entry Operations*

Data entry for all the survey instruments was performed using custom made applications developed in CS-Pro. Data entry for the household questionnaire was performed in a decentralized fashion in parallel with the enumeration, so as to allow for ‘real-time’ checking of the data collected. This allowed a further tier of quality control checks on the data. Where errors in the data were spotted during data entry, it was possible to instruct enumerators and supervisors to correct the information, if necessary revisiting the household, when the teams were still in the field. A further round of checks was performed by the core team in Tirana and the Bank staff, in Washington, DC as the data were gathered from the field and the entire dataset started building up.

All but two of the 16 teams in the districts had one DEO, the Fier and Kukes team had two, and there were five DEOs for Tirana. Each DEO in the districts worked with a laptop computer, and was given office space in the regional Statistics Offices, or in INSTAT headquarters for the Tirana teams.

The DEOs received Part 1 of the household questionnaire from the supervisor once the supervisor had checked the enumerator’s work, within a few days of the enumeration in the field. The DEO then entered the questionnaire on the custom program, noting from the error messages of the program where there were errors or omissions. These errors were then to be detailed on the appropriate page of the questionnaire so that the enumerator could correct them when they returned for the second visit to the household.

Once the DE of 8 questionnaires for a PSU was completed for Part 1, the questionnaires were returned to the supervisor who gave them to the enumerator for administering Part 2 in the field. After Part 2 was completed, and the errors or omissions noted from Part 1, the enumerator turned the questionnaires back to the supervisor, who in turn gave them to the DE operator for entering Part 2. If there were errors found in Part 2, the supervisor was then told and they either solved the problem, or sent the enumerator back to the household.

The data entry of the household questionnaires was completed by July 2005 and the data was all delivered to Tirana by the teams. The data entry of the food booklets was done on a separate data-entry program by DEOs in Tirana. The data entry was completed on 15 August. The questionnaires were all brought to Tirana and stored in INSTAT headquarters.

The data entry for the price questionnaires took place in July 2005. The data entry for the community and agriculture questionnaires took place in November.

### *Data cleaning*

Besides the checks built-in in the DE program and those performed on the preliminary versions of the dataset as it was building up, and additional round of in depth checks on the household questionnaire and the food diary was performed in November in Tirana. Wherever possible data entry errors or inconsistencies in the dataset were spotted, the

original questionnaires or diary were retrieved and the information contained therein checked.

## VI. Notes on Dataset Structure and Use

The dataset is best understood if used alongside the questionnaire. Even though the dataset includes short labels describing the variables, only the questionnaire includes the questions in full. Furthermore, the questionnaire includes details of most of the coding (the codes not included in the questionnaire are found as Annex 4 to this document), and clarifies how filter questions and skip patterns were used in the survey.

Furthermore, it is worth stressing that the weights provided in the dataset must always be used in the analysis in order to obtain results that are valid at the national, rural/urban, or stratum (coastal, central, mountain, Tirana) level.

The dataset in STATA is organized as follows. A folder named “Data” includes all the files from the household, diary and community questionnaires. A full list of files is reproduced in Annex 2. The variable names are formed by a combination of letters and numbers that follows the order of the questions in the questionnaire. The part of the name before the underscore sign (“\_”) refers to the module, the part after the underscore sign follows the sequence of the questions within each module. So for instance variable “m4b\_q16a” refers to **module 4b, question 16a**.

The data files from the household and food diary questionnaires can be linked by using the identifying variable for each household (**hhid**). This is a three to five digit variable where the last two digits always represent the household number (01 to 14), and the third- to fifth-last digits represent the PSU number (1 to 480). This variable was constructed by linking the variables identifying the PSU (**psu**), and the variable identifying the household (**hh**). Individual level files also include a variable identifying the specific individual to whom the information refers. The name of this variable varies across the files, but it is usually associated with the label “ID Code”.

The data from the cover-page of the questionnaires (codes of interviewers, supervisors and DEOs, interview dates etc.), and additional variables created automatically by the DE program for checking purposes were referred to in the course of the survey as ‘metadata’. These are included in separate files named “metadata” (the main questionnaire), “bmetadata” (the food diary), and “c\_basic” (the community questionnaire). A separate file named “filters” has been created in the dataset that includes all the responses to that main filter questions in the main questionnaire.

Sometimes the community is linked to a corresponding PSU one-on-one (this is usually the case in rural areas), but sometimes the area of a community is larger, and more PSUs can be linked to one community. The same is true for the price data, which were collected for each community.

A consumption aggregate has also been calculated based on the LSMS 2005 Dataset and is available, with full methodological documentation, upon request.

## Tables

**Table 1 - Contents of the 2005 Albania LSMS household questionnaire**

<b>Module</b>	<b>Broad description of the information collected</b>	<b>Respondent</b>
<b>Section 1</b>		
Cover page	Metadata: Enumerator, supervisor, and data entry operator information. District, municipality, Census EA, household head, PSU and household number, georeferencing	Compiled by the enumerator
1. Household roster	Details of household members and parents and languages spoken	Head of the household or, if not available, "principal respondent"
2. Education	Part A. Pre-school: attendance, type of school, costs. Part B. Schooling: attainment, attendance and costs. Part C: Parental opinion on children's schooling	Mother or guardian All household member age 6 or over Parent or guardian
3. Communication	Use and access to internet and possession of mobile phones	Individual respondents
4. Labor	Part A. Labor force participation Part B. Overview last 7 days Part C. Main and secondary job in the last 7 days Part D. Employment history	All members age 15 and older  All members age 15 and older
5. Non-farm business	Ownership, number and sources of start-up capital for non-farm businesses	Most knowledgeable person
6. Migration	Part A: Internal migration of household members Part B: International migration of household members Part C: Children living away and migration history Part D: Siblings of head and spouse Part E: Shocks to the household	Most knowledgeable person

7. Subjective poverty	Subjective assessment of the household financial situation in absolute and relative/comparative terms	Most knowledgeable person
<b>Section2</b>		
Cover page, section 2	Additional household information for panel tracking	Head of the household or, if not available, 'principal respondent'
9. Health	Part A. General health status Part B. Access to health care	All members 15 and older, parent or guardian or most knowledgeable person
10. Fertility	Part A. Fertility, pre-natal visits, and child health knowledge.	All women 15 years and older
11. Check form	Check form for food diary	enumerator
12. Nonfood expenditures	Part A. Purchases in the past 30 days Part B. Purchases in the past 6 months Part C. Purchases in the past 12 months	Most knowledgeable person
13. Dwelling, utilities and durable goods	Part A. description of Dwelling Part B. Utilities Part C. Household durables	Most knowledgeable person
14. Transfers and social assistance	Part C. Social assistance programs: number of members, benefit levels, and benefit arrears.	Most knowledgeable person
15. Other income	Income from rents, sales of assets, inheritance, gambling, and 'other'	Most knowledgeable person
16. Social capital	Groups and networks, Trust and solidarity, Collective action and cooperation, Social cohesion and inclusion, empowerment and political action	Most knowledgeable person
17. Agricultural households	Identification of agricultural households	Most knowledgeable person
Agriculture	Part 1. Plots owned and/or cultivated: Part 2. Plots sold since 1991 Part 3. Annual crops Part 4. Tree crops. Part 5. Livestock Part 6. Agricultural byproducts Part 7. Agricultural machinery and equipment Part 8. Extension services and rural development project participation	Person most knowledgeable about agriculture

	Part 9. Agricultural expenditures Part 10. Capital investments Part 11. Rural pension system	
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**Table 2 - Contents of the 2005 Albania LSMS community questionnaire**

<b>Module</b>	<b>Broad description of the information collected</b>
Cover page	Metadata on the community and the interview
1. Respondent characteristics	IA: Identification of the community, separately for urban and rural areas IB: Respondent characteristics - Name, age, sex, position, schooling, length of presence in the community.
2. Basic characteristics of the community	Definition of the community and population (rural areas), housing and living conditions, main problems, transport access types available
3. Access to public services	3A. Community infrastructure and transportation: School, health, communications, other services 3B. Education services: New schools, number of teachers, number of pupils, number of days operating 3C. Health: Availability of health center, number of days open, equipment, personnel 3D. Quality of public transport services: Improved/worsened, main problems, frequency
4. Community services	4A. Service availability, quality, coverage – General: Electricity, public lights, sewage, garbage, phones, mail, police 4B. Service quality – Specific: Sewage and garbage collection
5. Community organization	5A. Organizations: Presence of committees or organizations within the community 5B. Collective actions: Community meetings and coordinated action to solve community problems; who works most to solve community problems, knowledge of Albania PRSP
6. Community safety	Drug abuse, crimes
7. Migration	Migration from and to the community
8. Albanian Development Fund	Whether participated and type of work project
9. Problems related to the environment	Problems with insects, parasites etc.; diseases; unsafe garbage disposal, polluting activities
10. Credit	Sources of credit (formal and informal); prevailing interest rate

**Table 3 - Domains of Estimation (Regions). Districts and Major Cities in the Domains of Estimation**

<b>Regions</b>	<b>Districts in the Regions</b>	<i>Major Cities</i>	<i>Other Urban Cities</i>
<b>Region 1</b> Coastal area	Lezhë Kurbini Kavajë Mallakaster Lushnje Delvine Sarande Durrës Fier Vlorë	Durrës Fier Vlorë	Lezhë Kurbini Kavajë Mallakaster Lushnje Delvine Sarande Durrës
<b>Region 2</b> Central Area	Devoll Kolonjë Pogradec Mirdite Puke Malesi e Madhe Mat Kuçovë Skrapar Krujë Peqin Gjirokastër Permet Tepelenë Shkoder Elbasan Berat Korçë Tirana (rural)	Shkoder Elbasan Berat Korçë	Devoll Kolonjë Pogradec Mirdite Puke Malesi e Madhe Mat Kuçovë Skrapar Krujë Peqin Gjirokastër Permet Tepelenë
<b>Region 3</b> Mountain Area	Kukes Has Tropoje Bulqize Diber Gramsh Librazhd	no major cities	Kukes Has Tropoje Bulqize Diber Gramsh Librazhd
<b>Tirana</b>	Tirana urban Tirana other urban		

**Table 4: The 2002 LSMS design**

Geographic Area	Stratum	No. EAs (PSU)	No. of sample EAs	No. HUs	No. Sample HUs.
<b>Coastal</b>	Durres	306	10	24,323	80
	Fier	168	10	14,098	80
	Vlore	241	10	19,393	80
	Other urban	510	30	41,199	240
	Rural	1479	65	122,747	520
	<b>Tot. Coastal</b>	<b>2704</b>	<b>125</b>	<b>221,760</b>	<b>1000</b>
<b>Central</b>	Shkoder	278	10	20,331	80
	Elbasan	220	10	20,604	80
	Berat	123	10	9,841	80
	Korce	179	10	13,879	80
	Other urban	573	20	46,724	160
	Rural	2485	65	203,013	520
<b>Tot. Central</b>	<b>3858</b>	<b>125</b>	<b>314,392</b>	<b>1000</b>	
<b>Mountain</b>	Other urban	173	50	15,044	400
	Rural	659	75	53,061	600
	<b>Tot. Mountain</b>	<b>832</b>	<b>125</b>	<b>68,105</b>	<b>1000</b>
<b>Tirana</b>	Tirana	1075	75	333,844	600
	<b>Overall total</b>	<b>8469</b>	<b>450</b>	<b>938,101</b>	<b>3600</b>

**Table 5: The 2005 LSMS design**

Geographic Area	Stratum	No. EAs (PSUs)	No. HUs (SSUs)	No EAs in the sample	No. HUs in the sample
<b>1=Coastal Area</b>	1 Durres	383	29528	10	80
	2 Fier	168	14739	10	80
	3 Vlore	241	19979	10	80
	4 Other Urban	509	43712	30	240
	5 Rural	1479	125950	65	520
	<b>Tot. Coastal</b>	<b>2780</b>	<b>233908</b>	<b>125</b>	<b>1000</b>
<b>2=Central Area</b>	6 Shkoder	278	21570	10	80
	7 Elbasan	220	22076	10	80
	8 Berat	123	10528	10	80
	9 Korce	179	15099	10	80
	10 Other Urban	573	49336	20	160
	11 Rural	2436	209815	65	520
<b>Tot. Central</b>	<b>3809</b>	<b>328424</b>	<b>125</b>	<b>1000</b>	
<b>3=Mountain Area</b>	12 Other urban	171	16095	50	400
	13 Rural	655	56292	75	600
	<b>Tot. Mountain</b>	<b>826</b>	<b>72387</b>	<b>125</b>	<b>1000</b>
<b>4=Tirana</b>	14 Tirana	1336	108266	80	600
	<b>Overall total</b>	<b>8751</b>	<b>742985</b>	<b>455</b>	<b>3640</b>

## **Annex 1 How to Obtain Copies of the Data and Documentation**

Data from the Albania 2005 LSMS are public and are made available to users.

The data and related documentation can be downloaded from the LSMS website:

**<http://www.worldbank.org/lsms>**

or obtained by mail from the LSMS office or INSTAT at the addresses below. It is recommended that users read the documentation in full prior to using the data for their analyses.

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MSN MC3-306  
Washington DC, 20433  
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Tel.: 202 473 9041  
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A brief description of the research that will be done with the data should be included in the request. If the request is made to the World Bank by mail a processing fee, payable by check, is required. Users may check with the LSMS office by e-mail or at the website indicated above for the latest details on the processing fee. Data and documentation will be provided on CD.

Individuals who receive copies of the data agree: (a) to cite INSTAT as the collector of the data in all reports, publications and presentation; (b) to provide copies of the report, publications and presentations to INSTAT and the LSMS office at the World Bank (addresses above); and (c) not to pass on the data to any third party for any reason. Researchers found in violation of this agreement will be denied copies of LSMS datasets in the future.

**Annex 2 Dataset Contents (list of files and variables by survey instrument -  
See Excel Sheets organized by Module with Variables and Labels)**

### **Annex 3 Documents Available**

The following documents form the complete documentation available on the 2005 Albania LSMS.

#### *Questionnaires*

Household Questionnaire	}	(Albanian and English)
Food diary (booklet)		
Community and price questionnaire		
Agriculture questionnaire		

#### *Training manuals*

- Enumerator and supervisor manual (Albanian only)
- Community Questionnaire Supervisor Instructions (Albanian Only)

#### *Agricultural Manual (Albanian only) Other documents*

- Basic information document [this document] (English only)
- Sampling design and implementation reports [Annex 5 to this document] (English only)

## Annex 4 Codes not Found in the Questionnaires

### *Food codes for the 14 day diary (COICOP Codes), Albanian and English*

Food and non-alcoholic beverages		
Code/Kodet	Emertimi	Classification
11131	Oriz	Rice
11111	Buke e Zakonshme	Bread
11112	Buke speciale	Special bread
11113	Buke misri	Maize bread
11114	Buke e bere ne shtepi	Homemade bread
11121	Buke e thekur	Toasted bread
11122	Biskota	Biscuits
11123	Biskota per Aperitive	Crisp-bread
11124	Kruasane	Croissant
11134	Makarona	Pasta
11135	Pete	Pies
11136	Trahana	Trahana
11125	Pasticeri	Pastry cook
11929	Kadaif	Cadaif
1192A	Bakllava	Baklava
11928	Embelsira gjysme te gatshme	Half-processed sweets
11139	Pjekje ne furre	Baking ?
11126	Embelsira te Ftohta e ngrirre	Frozen sweets
11132	Miell	Flour
11133	Korn- flakes	Corn-flakes
11137	Niseshte	Starch
1192E	Hashure	
11211	Mish vici i fresket	Fresh veal
11212	Mish vici i perpunuar	Processed veal
11213	Mish i ngrire (importi)	Frozen veal
11214	Kocka vici	Veal bones
11215	Qofte	Croquette
11231	Mish derri i Fresket	Fresh pork
11232	Mish derri i perpunuar	Processed pork
11233	Mish derri i Ngrire	Frozen pork
11221	Mish Qengji dashikeci i fresket	Fresh sheep
11222	Mish Qengji Dashi Keci i ngrire	Frozen sheep

11241	Mish Pule i fresket	Fresh chicken
11242	Mish pule i ngrire	Frozen chicken
11243	Shpende te tjere te ngrire	Other frozen poultry
11244	Mish Shpezesh te tjera	Other poultry
11271	Sallam vendi	Home produced sausages
11272	Sallam importi	Imported sausage
11273	Mortadele	Mortadella
11274	Kremvice	Sausage
11276	Proshute	Bacon
11261	Tru	Brain
11262	Melci vici lope	Veal's liver
11263	Melci pule	Chicken's liver
11264	Te Brendeshme te tjera	Other intestines
11265	Te Brendeshme te Ngrira	Frozen intestines
11251	Mish i konservuar	Preserved meat
11311	Peshk i fresket	Fresh fish
11312	Fileto peshku	Fish fillet
11313	Peshk i ngrire	Frozen fish
11321	Krustake te fresket	Fresh lobsters
11322	Karkaleca te fresket	Fresh shrimps
11323	Molusqe te fresket	Fresh sea shells
11314	Peshk i tymosur i thate	Dried smoked fish
11315	Peshk konserve	Preserved fish
11316	Veze peshku te fresketa	Spawn
11324	Molusqe te konservuara	Preserved sea shells
11411	Qumesht	Milk
11412	Qumesht i kondensuar pluhur	Condensed, powdered milk
11431	Kos natural	Natural yogurt
11432	Kos frutash	Yogurt with fruit
11421	Djath i bardhe	White cheese
11422	Djath kackavall	Kackavall cheese
11423	Djath i shkrirë	Melted cheese
11424	Gjize	Curd
11413	Krem qumeshti	Cream milk
11451	Veze pule	Eggs
11452	Veze rose pate	Poultry eggs
11441	Gjalpe	Butter

11514	Margarine	Margarine
11512	Vaj ulliri	Olive oil
11511	Vaj luledielli	Sun-flower oil
11513	Vaj misri vaj soje	Soybean oil, corn oil
11621	Portokalle	Orange
11622	Mandarina	Mandarin
11623	Limona	Lemon
11624	Grejpfrut	Grapefruit
11625	Banane	Bananas
11611	Molle	Apples
11612	Dardha	Pears
11613	Pjeshka	Peach
11618	Kajsi	Apricot
11619	Qersh	Cherry
1161A	Kumbulla	Plum
11614	Rrush	Grapes
11615	Luleshtrydhe	Strawberry
11616	Pjeper	Melon
11617	Shalqi	Water-melon
1161C	Fiq	Fig
1161D	Shege	Pomegranate
1161E	Ftonj	Quince
11626	Kivi	Kiwi
11627	Fruta te tjera ekzotike	Other tropical fruits
1161B	Hurma	Dates
11631	Geshtenja	Chestnut
11632	Arra bajame lajthi kikrike pa kripe	Almond, nuts etc
11633	Bajame kikirike te kripur	Salted almonds, nuts..
11634	Arra bajame kikirike te qeruar	Shelled almonds, nuts
11635	Kumbulla molle rrush te thate	Dried fruit
11644	Fruta te ngrira	Frozen fruits
1171C	Sallate jeshile	Salad
1171F	Spinaq	Spinach
1171K	Cikore	Chicory
11717	Laker	Cabbages
11718	Lule-laker	Cauliflower

11711	Domate	Tomatoes
11712	Kastravec	Cucumber
11713	Bizele	Green beans
11714	Bamje	Okra
11715	Mashurka	Kidney beans
1171B	Kunguj	Zucchini
1171D	Patellxhane	Eggplant
1171E	Speca	Pepper
1171J	Ullinj	Olive
11723	Bathe	Beans
11716	Karrota	Carrots
11719	Rrepa	Turnip
1171A	Panxhar i kuq	Red beetroot
1171G	Qepe te njoma	Fresh onion
1171H	Hudhra te njoma	Fresh garlic
1171I	Kepurdha te fresketa	Mushrooms
1171M	Presh	Leek
11724	Qepe hudhra te thata	Dried onion, garlic
11721	Fasule	White beans
11722	Thjereza	Lentil
1192C	Fara	Sunflower, zucchini seeds
11742	Bizele te ngrira	Frozen beans
11743	Speca te ngrira	Frozen pepper
11744	Bamje te ngrira	Frozen okra
11745	Mashurka te ngrira	Frozen kidney beans
11747	Domate te ngrira	Frozen tomatoes
11751	Bizele te konservuara	Conserved beans
11752	Kastraveca te konservuar	Conserved cucumber
11753	Speca te konservuar	Conserved pepper
11755	Kepurdha te konservuar	Cons. Mushrooms
11756	Mashurka te konservuar	Conserv. Kidney beans
11757	Fasule te konservuara	Conserv. Beans
11758	Ullinj te konservuar	Conserv. Olives
11759	Thjereza te konservuara	Conserv. Lentil
1175A	Qepujka te konservuara	Conserv. Onion
1175B	Turshi (kastravece laker domate..)	Pickles
1175C	Salce domate	Tomatoes sauce
11731	Patate	Potatoes
11732	Patate te dehidratuara (pure...)	Dehidrat. Potatoes
11741	Patate te ngira	Frozen potatoes
11725	Perime te tjera	Other vegetables
11710	Perime te paspecif	Unspecified vegetables
11811	Sheqer	Sugar

11831	Recel	Jams
11832	Marmalate	Marmalades
11833	Komposto	Compotes
11812	Mjalte	Honey
11834	Pure frutash	Fruit purees
11821	Llokume	Turkish delights
11822	Karamele te ndryshme	Caramel
11823	Bonbone cokollate	Cocholates, bombones
11824	Camcakize	Chewing gum
11825	Fruta te Sheqerosura	Sugared fruit
11826	Xhelatine	Jelly
1192D	Hallvasi	Hallvasi
1192B	Akulllore	Ice-cream
11916	Uthull vendi	Vinegar
11918	Majoneze	Mayonnaise
11919	Mustarde	Mustard
1191B	Salca te tjera	Other sauces
11911	Kripe	Salt
11912	Piper i zi	Black pepper
11913	Piper i kuq	Red pepper
11914	Limontoz	Tartaric acid
11917	Spec djeges	Spice
11923	Karafil	Cloves
11924	Kanelle	Cinnamon
11926	Aroma te ndryshme	Other aromas
1171L	Ereza	Condiments
11915	Sode buke	Sodium
1191C	Leng limoni	Lemon juice
1191D	Vanilje	Vanilla
11921	Supe e dehidratuar	Dehidrat. Soup
11922	Leng mishi	Broth
11925	Veze pluhur	Powdered egg
11927	Maja	Yeast
11141	Ushqime dhe lengje per femije	Baby foods
12111	Kafe	Coffee
12112	Caj	Tea
12113	Kakao	Cocoa
12114	Salep	Salep
12218	Boze	Boze

12211	Uje mineral	Mineral water
12214	Pije joalkoolike me gaz(shishe plastike)	Non-alcoholic beverages
12215	Pije freskuese me gaz (shishe qelqi)	Non-alcoholic beverages
12217	Pije te gazuara me kanace	Teen beverages
12219	Aperitive	Aperitifs
12212	Lengje frutash	Fruit juices
12213	Leng limoni	Lemon juice
12216	Nektare frutash	Fruit nectar
<b>KODI</b>	<b>Ushqime jashte shtepise</b>	<b>Food outside home</b>
9811C	Sallate ne restorant	Salad in restaurant
9811D	Antipaste ne restorant	Entrée in restaurant
9811E	Pjate e pare	First dish
9811F	Pjate e dyte	Second dish
9811G	Embelsire ne restorant	Sweets in restaurant
9811H	Fruta ne restorant	Fruits in restaurant
9811O	Pilaf ne restorant	Risotto in restaurant
9811P	Paçe ne lokal	Extract and juices of meat in restaurant
9811Q	Kos ne lokal	Yogurt in restaurant
99711	Dreke/darke ne restorant	Lunch/dinner in restaurant
98100	Ushqim I gatshem I paspecifikuar	Prepared food(unspecified)
98111	Pica	Pizza
98112	Byrek	Byrek
98113	Cips	Chips
98114	Hamburger	Hamburger
98115	Qebap me buke	Qebab
98116	Pule	Chicken roasted
98117	Sallam me buke	Hot dogs
98118	Berxolle biftek me buke	Bread and chops
98119	Djathe me veze e buke	Bread and cheese
9811A	Mish lope vici I tregtuar	Processed veal/cow meat
9811B	Mish vici konserve	Preserved veal's meat
9811I	Kafe ne lokal	Coffee in the bar
9811J	Çaj ne lokal	Tea in the bar
9811K	Uje ne lokal	Water in the bar
9811L	Lengje frutash ne lokal	Fruit juices in the bar
9811M	Pije me gaz ne lokal	Non-alcoholic beverages in the bar
9811R	Dreke ne mence	Lunch in the canteen

## ***Occupation codes (ISCO – 1988)***

### **MAJOR GROUP 1 LEGISLATORS, SENIOR OFFICIALS AND MANAGERS**

- 11 LEGISLATORS AND SENIOR OFFICIALS
  - 111 LEGISLATORS
    - 1110 Legislators
  - 112 SENIOR GOVERNMENT OFFICIALS
    - 1120 Senior government officials
  - 113 TRADITIONAL CHIEFS AND HEADS OF VILLAGES
    - 1130 Traditional chiefs and heads of villages
  - 114 SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS
    - 1141 Senior officials of political-party organisations
    - 1142 Senior officials of employers', workers' and other economic-interest organisations
    - 1143 Senior officials of humanitarian and other special-interest organisations
- 12 CORPORATE MANAGERS (This group is intended to include persons who - as directors, chief executives or department managers - manage enterprises or organisations, or departments, requiring a total of three or more managers.)
  - 121 DIRECTORS AND CHIEF EXECUTIVES
    - 1210 Directors and chief executives
  - 122 PRODUCTION AND OPERATIONS DEPARTMENT MANAGERS
    - 1221 Production and operations department managers in agriculture, hunting, forestry and fishing
    - 1222 Production and operations department managers in manufacturing
    - 1223 Production and operations department managers in construction
    - 1224 Production and operations department managers in wholesale and retail trade
    - 1225 Production and operations department managers in restaurants and hotels
    - 1226 Production and operations department managers in transport, storage and communications
    - 1227 Production and operations department managers in business services
    - 1228 Production and operations department managers in personal care, cleaning and

- related services
- 1229 Production and operations department managers not elsewhere classified
- 123 OTHER DEPARTMENT MANAGERS
  - 1231 Finance and administration department managers
  - 1232 Personnel and industrial relations department managers
  - 1233 Sales and marketing department managers
  - 1234 Advertising and public relations department managers
  - 1235 Supply and distribution department managers
  - 1236 Computing services department managers
  - 1237 Research and development department managers
  - 1239 Other department managers not elsewhere classified
- 13 GENERAL MANAGERS (This group is intended to include persons who manage enterprises, or in some cases organisations, on their own behalf, or on behalf of the proprietor, with some non-managerial help and the assistance of no more than one other manager who should also be classified in this sub- major group as, in most cases, the tasks will be broader than those of a specialised manager in a larger enterprise or organisation. Non-managerial staff should be classified according to their specific tasks.)
  - 131 GENERAL MANAGERS
    - 311 General managers in agriculture, hunting, forestry/ and fishing
    - 1312 General managers in manufacturing
    - 1313 General managers in construction
    - 1314 General managers in wholesale and retail trade
    - 1315 General managers of restaurants and hotels
    - 1316 General managers in transport, storage and communications
    - 1317 General managers of business services
    - 1318 General managers in personal care, cleaning and related services
    - 1319 General managers not elsewhere classified

### **MAJOR GROUP 2 PROFESSIONALS**

- 21 PHYSICAL, MATHEMATICAL AND ENGINEERING SCIENCE PROFESSIONALS

211 PHYSICISTS, CHEMISTS AND RELATED PROFESSIONALS

2111 Physicists and astronomers

2112 Meteorologists

2113 Chemists

2114 Geologists and geophysicists

212 MATHEMATICIANS, STATISTICIANS AND RELATED PROFESSIONALS

2121 Mathematicians and related professionals

2122 Statisticians

213 COMPUTING PROFESSIONALS

2131 Computer systems designers and analysts

2132 Computer programmers

2139 Computing professionals not elsewhere classified

214 ARCHITECTS, ENGINEERS AND RELATED PROFESSIONALS

2141 Architects, town and traffic planners

2142 Civil engineers

2143 Electrical engineers

2144 Electronics and telecommunications engineers

2145 Mechanical engineers

2146 Chemical engineers

2147 Mining engineers, metallurgists and related professionals

2148 Cartographers and surveyors

2149 Architects, engineers and related professionals not elsewhere classified

22 LIFE SCIENCE AND HEALTH PROFESSIONALS

221 LIFE SCIENCE PROFESSIONALS

2211 Biologists, botanists, zoologists and related professionals

2212 Pharmacologists, pathologists and related professionals

2213 Agronomists and related professionals

222 HEALTH PROFESSIONALS (except nursing)

2221 Medical doctors

2222 Dentists

2223 Veterinarians

2224 Pharmacists

2229 Health professionals (except nursing) not elsewhere classified

223 NURSING AND MIDWIFERY PROFESSIONALS

2230 Nursing and midwifery professionals

23 TEACHING PROFESSIONALS

231 COLLEGE, UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS

2310 College, university and higher education teaching professionals

232 SECONDARY EDUCATION TEACHING PROFESSIONALS

2320 Secondary education teaching professionals

233 PRIMARY AND PRE-PRIMARY EDUCATION TEACHING PROFESSIONALS

2331 Primary education teaching professionals

2332 Pre-primary education teaching professionals

234 SPECIAL EDUCATION TEACHING PROFESSIONALS

2340 Special education teaching professionals

235 OTHER TEACHING PROFESSIONALS

2351 Education methods specialists

2352 School inspectors

2359 Other teaching professionals not elsewhere classified

24 OTHER PROFESSIONALS

241 BUSINESS PROFESSIONALS

2411 Accountants

2412 Personnel and careers professionals

2419 Business professionals not elsewhere classified

242 LEGAL PROFESSIONALS

2421 Lawyers

2422 Judges

2429 Legal professionals not elsewhere classified

243 ARCHIVISTS, LIBRARIANS AND RELATED INFORMATION PROFESSIONALS

2431 Archivists and curators

2432 Librarians and related information professionals

244 SOCIAL SCIENCE AND RELATED PROFESSIONALS

2441 Economists

2442 Sociologists, anthropologists and related professionals

2443 Philosophers, historians and political scientists

2444 Philologists, translators and interpreters

2445 Psychologists

2446 Social work professionals

245 WRITERS AND CREATIVE OR PERFORMING ARTISTS

2451 Authors, journalists and other writers

2452 Sculptors, painters and related artists

2453 Composers, musicians and singers

2454 Choreographers and dancers  
2455 Film, stage and related actors and directors

246 RELIGIOUS PROFESSIONALS  
2460 Religious professionals

### **MAJOR GROUP 3 TECHNICIANS AND ASSOCIATE PROFESSIONALS**

31 PHYSICAL AND ENGINEERING  
SCIENCE ASSOCIATE PROFESSIONALS  
311 PHYSICAL AND ENGINEERING  
SCIENCE TECHNICIANS  
3111 Chemical and physical science technicians  
3112 Civil engineering technicians  
3113 Electrical engineering technicians  
3114 Electronics and telecommunications  
engineering technicians  
3115 Mechanical engineering technicians  
3116 Chemical engineering technicians  
3117 Mining and metallurgical technicians  
3118 Draughtspersons  
3119 Physical and engineering science  
technicians not elsewhere classified

312 COMPUTER ASSOCIATE  
PROFESSIONALS  
3121 Computer assistants  
3122 Computer equipment operators  
3123 Industrial robot controllers

313 OPTICAL AND ELECTRONIC  
EQUIPMENT OPERATORS  
3131 Photographers and image and sound  
recording equipment operators  
3132 Broadcasting and telecommunications  
equipment operators  
3133 Medical equipment operators  
3139 Optical and electronic equipment operators  
not elsewhere classified

314 SHIP AND AIRCRAFT CONTROLLERS  
AND TECHNICIANS  
3141 Ships' engineers  
3142 Ships' deck officers and pilots  
3143 Aircraft pilots and related associate  
professionals  
3144 Air traffic controllers  
3145 Air traffic safety technicians

315 SAFETY AND QUALITY INSPECTORS  
3151 Building and fire inspectors  
3152 Safety, health and quality inspectors

32 LIFE SCIENCE AND HEALTH  
ASSOCIATE PROFESSIONALS  
321 LIFE SCIENCE TECHNICIANS AND  
RELATED ASSOCIATE PROFESSIONALS  
3211 Life science technicians

3212 Agronomy and forestry technicians  
3213 Farming and forestry advisers

322 MODERN HEALTH ASSOCIATE  
PROFESSIONALS (except nursing)  
3221 Medical assistants  
3222 Sanitarians  
3223 Dieticians and nutritionists  
3224 Optometrists and opticians  
3225 Dental assistants  
3226 Physiotherapists and related associate  
professionals  
3227 Veterinary assistants  
3228 Pharmaceutical assistants  
3229 Modern health associate professionals  
(except nursing) not elsewhere classified

323 NURSING AND MIDWIFERY  
ASSOCIATE PROFESSIONALS  
3231 Nursing associate professionals  
3232 Midwifery associate professionals  
  
324 TRADITIONAL MEDICINE  
PRACTITIONERS AND FAITH HEALERS  
3241 Traditional medicine practitioners  
3242 Faith healers

33 TEACHING ASSOCIATE  
PROFESSIONALS

331 PRIMARY EDUCATION TEACHING  
ASSOCIATE PROFESSIONALS  
3310 Primary education teaching associate  
professionals

332 PRE-PRIMARY EDUCATION  
TEACHING ASSOCIATE PROFESSIONALS  
3320 Pre-primary education teaching associate  
professionals

333 SPECIAL EDUCATION TEACHING  
ASSOCIATE PROFESSIONALS  
3330 Special education teaching associate  
professionals

334 OTHER TEACHING ASSOCIATE  
PROFESSIONALS  
3340 Other teaching associate professionals

34 OTHER ASSOCIATE PROFESSIONALS  
341 FINANCE AND SALES ASSOCIATE  
PROFESSIONALS  
3411 Securities and finance dealers and brokers  
3412 Insurance representatives  
3413 Estate agents  
3414 Travel consultants and organisers  
3415 Technical and commercial sales  
representatives  
3416 Buyers  
3417 Appraisers, valuers and auctioneers

3419 Finance and sales associate professionals  
not elsewhere classified

**342 BUSINESS SERVICES AGENTS AND  
TRADE BROKERS**

3421 Trade brokers  
3422 Clearing and forwarding agents  
3423 Employment agents and labour contractors  
3429 Business services agents and trade brokers  
not elsewhere classified

**343 ADMINISTRATIVE ASSOCIATE  
PROFESSIONALS**

3431 Administrative secretaries and related  
associate professionals  
3432 Legal and related business associate  
professionals

3433 Bookkeepers  
3434 Statistical, mathematical and related  
associate professionals  
3439 Administrative associate professionals not  
elsewhere classified

**344 CUSTOMS, TAX AND RELATED  
GOVERNMENT ASSOCIATE  
PROFESSIONALS**

3441 Customs and border inspectors  
3442 Government tax and excise officials  
3443 Government social benefits officials  
3444 Government licensing officials  
3449 Customs, tax and related government  
associate professionals not elsewhere  
classified

**345 POLICE INSPECTORS AND  
DETECTIVES**

3450 Police inspectors and detectives

**346 SOCIAL WORK ASSOCIATE  
PROFESSIONALS**

3460 Social work associate professionals

**347 ARTISTIC, ENTERTAINMENT AND  
SPORTS ASSOCIATE PROFESSIONALS**

3471 Decorators and commercial designers  
3472 Radio, television and other announcers  
3473 Street, night-club and related musicians,  
singers and dancers  
3474 Clowns, magicians, acrobats and related  
associate professionals  
3475 Athletes, sportspersons and related  
associate professionals

**348 RELIGIOUS ASSOCIATE  
PROFESSIONALS**

3480 Religious associate professionals

**MAJOR GROUP 4**

**CLERKS**

**41 OFFICE CLERKS  
411 SECRETARIES AND KEYBOARD-  
OPERATING CLERKS**

4111 Stenographers and typists  
4112 Word-processor and related operators  
4113 Data entry operators  
4114 Calculating-machine operators  
4115 Secretaries

**412 NUMERICAL CLERKS**

4121 Accounting and bookkeeping clerks  
4122 Statistical and finance clerks

**413 MATERIAL-RECORDING AND  
TRANSPORT CLERKS**

4131 Stock clerks  
4132 Production clerks  
4133 Transport clerks

**414 LIBRARY, MAIL AND RELATED  
CLERKS**

4141 Library and filing clerks  
4142 Mail carriers and sorting clerks  
4143 Coding, proof-reading and related clerks  
4144 Scribes and related workers

**419 OTHER OFFICE CLERKS**

4190 Other office clerks

**42 CUSTOMER SERVICES CLERKS**

**421 CASHIERS, TELLERS AND RELATED  
CLERKS**

4211 Cashiers and ticket clerks  
4212 Tellers and other counter clerks  
4213 Bookmakers and croupiers  
4214 Pawnbrokers and money-lenders  
4215 Debt-collectors and related workers

**422 CLIENT INFORMATION CLERKS**

4221 Travel agency and related clerks  
4222 Receptionists and information clerks  
4223 Telephone switchboard operators

**MAJOR GROUP 5  
SERVICE WORKERS AND SHOP  
AND MARKET SALES WORKERS**

**51 PERSONAL AND PROTECTIVE  
SERVICES WORKERS**

**511 TRAVEL ATTENDANTS AND  
RELATED WORKERS**

5111 Travel attendants and travel stewards  
5112 Transport conductors  
5113 Travel guides

**512 HOUSEKEEPING AND RESTAURANT  
SERVICES WORKERS**

5121 Housekeepers and related workers  
5122 Cooks

5123 Waiters, waitresses and bartenders

513 PERSONAL CARE AND RELATED WORKERS

5131 Child-care workers

5132 Institution-based personal care workers

5133 Home-based personal care workers

5139 Personal care and related workers not elsewhere classified

514 OTHER PERSONAL SERVICES WORKERS

5141 Hairdressers, barbers, beauticians and related workers

5142 Companions and valets

5143 Undertakers and embalmers

5149 Other personal services workers not elsewhere classified

515 ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS

5151 Astrologers and related workers

5152 Fortune-tellers, palmists and related workers

516 PROTECTIVE SERVICES WORKERS

5161 Fire-fighters

5162 Police officers

5163 Prison guards

5169 Protective services workers not elsewhere classified

52 MODELS, SALESPERSONS AND DEMONSTRATORS

521 FASHION AND OTHER MODELS

5210 Fashion and other models

522 SHOP SALESPERSONS AND DEMONSTRATORS

5220 Shop salespersons and demonstrators

523 STALL AND MARKET SALESPERSONS

5230 Stall and market salespersons

**MAJOR GROUP 6  
SKILLED AGRICULTURAL AND FISHERY WORKERS**

61 MARKET-ORIENTED SKILLED AGRICULTURAL AND FISHERY WORKERS

611 MARKET GARDENERS AND CROP GROWERS

6111 Field crop and vegetable growers

6112 Tree and shrub crop growers

6113 Gardeners, horticultural and nursery growers

6114 Mixed-crop growers

612 MARKET-ORIENTED ANIMAL PRODUCERS AND RELATED WORKERS

6121 Dairy and livestock producers

6122 Poultry producers

6123 Apiarists and sericulturists

6124 Mixed-animal producers

6129 Market-oriented animal producers and related workers not elsewhere classified

613 MARKET-ORIENTED CROP AND ANIMAL PRODUCERS

6130 Market-oriented crop and animal producers

614 FORESTRY AND RELATED WORKERS

6141 Forestry workers and loggers

6142 Charcoal burners and related workers

615 FISHERY WORKERS, HUNTERS AND TRAPPERS

6151 Aquatic-life cultivation workers

6152 Inland and coastal waters fishery/ workers

6153 Deep-sea fishery workers

6154 Hunters and trappers

62 SUBSISTENCE AGRICULTURAL AND FISHERY WORKERS

621 SUBSISTENCE AGRICULTURAL AND FISHERY WORKERS

6210 Subsistence agricultural and fishery/ workers

**MAJOR GROUP 7  
CRAFT AND RELATED TRADES WORKERS**

71 EXTRACTION AND BUILDING TRADES WORKERS

711 MINERS, SHOTFIRERS, STONE CUTTERS AND CARVERS

7111 Miners and quarry workers

7112 Shotfirers and blasters

7113 Stone splitters, cutters and carvers

712 BUILDING FRAME AND RELATED TRADES WORKERS

7121 Builders, traditional materials

7122 Bricklayers and stonemasons

7123 Concrete placers, concrete finishers and related workers

7124 Carpenters and joiners

7129 Building frame and related trades workers not elsewhere classified

713 BUILDING FINISHERS AND RELATED TRADES WORKERS

7131 Roofers

7132 Floor layers and tile setters

7133 Plasterers  
7134 Insulation workers  
7135 Glaziers  
7136 Plumbers and pipe fitters  
7137 Building and related electricians

714 PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED TRADES WORKERS  
7141 Painters and related workers  
7142 Varnishers and related painters  
7143 Building structure cleaners

72 METAL, MACHINERY AND RELATED TRADES WORKERS  
721 METAL MOULDERS, WELDERS, SHEET-METAL WORKERS, STRUCTURAL-METAL PREPARERS, AND RELATED TRADES WORKERS  
7211 Metal moulders and coremakers  
7212 Welders and flamecutters  
7213 Sheet metal workers  
7214 Structural-metal preparers and erectors  
7215 Riggers and cable splicers  
7216 Underwater workers

722 BLACKSMITHS, TOOL-MAKERS AND RELATED TRADES WORKERS  
7221 Blacksmiths, hammer-smiths and forging-press workers  
7222 Tool-makers and related workers  
7223 Machine-tool setters and setter-operators  
7224 Metal wheel-grinders, polishers and tool sharpeners

723 MACHINERY MECHANICS AND FITTERS  
7231 Motor vehicle mechanics and fitters  
7232 Aircraft engine mechanics and fitters  
7233 Agricultural- or industrial-machinery mechanics and fitters

724 ELECTRICAL AND ELECTRONIC EQUIPMENT MECHANICS AND FITTERS  
7241 Electrical mechanics and fitters  
7242 Electronics fitters  
7243 Electronics mechanics and servicers  
7244 Telegraph and telephone installers and servicers  
7245 Electrical line installers, repairers and cable jointers

73 PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES WORKERS  
731 PRECISION WORKERS IN METAL AND RELATED MATERIALS  
7311 Precision-instrument makers and repairers  
7312 Musical instrument makers and tuners  
7313 Jewellery and precious-metal workers

732 POTTERS, GLASS-MAKERS AND RELATED TRADES WORKERS  
7321 Abrasive wheel formers, potters and related workers  
7322 Glass makers, cutters, grinders and finishers  
7323 Glass engravers and etchers  
7324 Glass, ceramics and related decorative painters

733 HANDICRAFT WORKERS IN WOOD,TEXTILE, LEATHER AND RELATED MATERIALS  
7331 Handicraft workers in wood and related materials  
7332 Handicraft workers in textile, leather and related materials

734 PRINTING AND RELATED TRADES WORKERS  
7341 Compositors, typesetters and related workers  
7342 Stereotypers and electrotypers  
7343 Printing engravers and etchers  
7344 Photographic and related workers  
7345 Bookbinders and related workers  
7346 Silk-screen, block and textile printers

74 OTHER CRAFT AND RELATED TRADES WORKERS  
741 FOOD PROCESSING AND RELATED TRADES WORKERS  
7411 Butchers, fishmongers and related food preparers  
7412 Bakers, pastry-cooks and confectionery makers  
7413 Dairy-products makers  
7414 Fruit, vegetable and related preservers  
7415 Food and beverage tasters and graders  
7416 Tobacco preparers and tobacco products makers

742 WOOD TREATERS, CABINET-MAKERS AND RELATED TRADES WORKERS  
7421 Wood treaters  
7422 Cabinet makers and related workers  
7423 Woodworking machine setters and setter-operators  
7424 Basketry weavers, brush makers and related workers

743 TEXTILE, GARMENT AND RELATED TRADES WORKERS  
7431 Fibre preparers  
7432 Weavers, knitters and related workers  
7433 Tailors, dressmakers and hatters  
7434 Furriers and related workers

7435 Textile, leather and related pattern-makers and cutters  
7436 Sewers, embroiderers and related workers  
7437 Upholsterers and related workers

**744 PELT, LEATHER AND SHOEMAKING TRADES WORKERS**

7441 Pelt dressers, tanners and fellmongers  
7442 Shoe-makers and related workers

**MAJOR GROUP 8  
PLANT AND MACHINE  
OPERATORS AND ASSEMBLERS**

**81 STATIONARY-PLANT AND RELATED OPERATORS**

811 MINING- AND MINERAL-  
PROCESSING PLANT OPERATORS  
8111 Mining-plant operators

8112 Mineral-ore- and stone-processing-plant operators  
8113 Well drillers and borers and related workers

**812 METAL-PROCESSING-PLANT OPERATORS**

8121 Ore and metal furnace operators  
8122 Metal melters, casters and rolling-mill operators  
8123 Metal-heat-treating-plant operators  
8124 Metal drawers and extruders

**813 GLASS, CERAMICS AND RELATED PLANT OPERATORS**

8131 Glass and ceramics kiln and related machine operators  
8139 Glass, ceramics and related plant operators not elsewhere classified

**814 WOOD-PROCESSING- AND PAPERMAKING-PLANT OPERATORS**

8141 Wood-processing-plant operators  
8142 Paper-pulp plant operators  
8143 Papermaking-plant operators

**815 CHEMICAL-PROCESSING-PLANT OPERATORS**

8151 Crushing-, grinding- and chemical-mixing machinery operators  
8152 Chemical-heat-treating-plant operators  
8153 Chemical-filtering- and separating-equipment operators  
8154 Chemical-still and reactor operators (except petroleum and natural gas)  
8155 Petroleum- and natural-gas-refining-plant operators  
8159 Chemical-processing-plant operators not elsewhere classified

**816 POWER-PRODUCTION AND RELATED PLANT OPERATORS**

8161 Power-production plant operators  
8162 Steam-engine and boiler operators  
8163 Incinerator, water-treatment and related plant operators

**817 AUTOMATED-ASSEMBLY-LINE AND INDUSTRIAL-ROBOT OPERATORS**

8171 Automated-assembly-line operators  
8172 Industrial-robot operators

**82 MACHINE OPERATORS AND ASSEMBLERS**

**821 METAL- AND MINERAL-PRODUCTS MACHINE OPERATORS**

8211 Machine-tool operators  
8212 Cement and other mineral products machine operators

**822 CHEMICAL-PRODUCTS MACHINE OPERATORS**

8221 Pharmaceutical- and toiletry-products machine operators  
8222 Ammunition- and explosive-products machine operators  
8223 Metal finishing-, plating- and coating-machine operators  
8224 Photographic-products machine operators  
8229 Chemical-products machine operators not elsewhere classified

**823 RUBBER- AND PLASTIC-PRODUCTS MACHINE OPERATORS**

8231 Rubber-products machine operators  
8232 Plastic-products machine operators

**824 WOOD-PRODUCTS MACHINE OPERATORS**

8240 Wood-products machine operators

**825 PRINTING-, BINDING- AND PAPER-PRODUCTS MACHINE OPERATORS**

8251 Printing-machine operators  
8252 Bookbinding-machine operators  
8253 Paper-products machine operators

**826 TEXTILE-, FUR- AND LEATHER-PRODUCTS MACHINE OPERATORS**

8261 Fibre-preparing-, spinning- and winding machine operators  
8262 Weaving- and knitting-machine operators  
8263 Sewing machine operators  
8264 Bleaching-, dyeing- and cleaning-machine operators  
8265 Fur and leather-preparing-machine operators  
8266 Shoemaking- and related machine operators

8269 Textile-, fur- and leather-products machine operators not elsewhere classified

**827 FOOD AND RELATED PRODUCTS MACHINE OPERATORS**

8271 Meat- and fish-processing-machine operators

8272 Dairy-products machine operators

8273 Grain- and spice-milling-machine operators

8274 Baked-goods, cereal and chocolate-products machine operators

8275 Fruit-, vegetable- and nut-processing-machine operators

8276 Sugar production machine operators

8277 Tea-, coffee-, and cocoa-processing-machine operators

8278 Brewers-, wine and other beverage machine operators

8279 Tobacco production machine operators

**828 ASSEMBLERS**

8281 Mechanical-machinery assemblers

8282 Electrical-equipment assemblers

8283 Electronic-equipment assemblers

8284 Metal-, rubber- and plastic-products assemblers

8285 Wood and related products assemblers

8286 Paperboard, textile and related products assemblers

**829 OTHER MACHINE OPERATORS AND ASSEMBLERS**

8290 Other machine operators and assemblers

**83 DRIVERS AND MOBILE-PLANT OPERATORS**

**831 LOCOMOTIVE-ENGINE DRIVERS AND RELATED WORKERS**

8311 Locomotive-engine drivers

8312 Railway brakemen, signallers and shunters

**832 MOTOR-VEHICLE DRIVERS**

8321 Motor-cycle drivers

8322 Car, taxi and van drivers

8323 Bus and tram drivers

8324 Heavy truck and lorry drivers

**833 AGRICULTURAL AND OTHER MOBILE-PLANT OPERATORS**

8331 Motorised farm and forestry plant operators

8332 Earth-moving- and related plant operators

8333 Crane, hoist and related plant operators

8334 Lifting-truck operators

**834 SHIPS' DECK CREWS AND RELATED WORKERS**

8340 Ships' deck crews and related workers

**MAJOR GROUP 9**

**ELEMENTARY OCCUPATIONS**

**91 SALES AND SERVICES ELEMENTARY OCCUPATIONS**

**911 STREET VENDORS AND RELATED WORKERS**

9111 Street food vendors

9112 Street vendors, non-food products

9113 Door-to-door and telephone salespersons

**912 SHOE CLEANING AND OTHER STREET SERVICES ELEMENTARY OCCUPATIONS**

9120 Shoe cleaning and other street services elementary occupations

**913 DOMESTIC AND RELATED HELPERS, CLEANERS AND LAUNDERERS**

9131 Domestic helpers and cleaners

9132 Helpers and cleaners in offices, hotels and other establishments

9133 Hand-laundresses and pressers

**914 BUILDING CARETAKERS, WINDOW AND RELATED CLEANERS**

9141 Building caretakers

9142 Vehicle, window and related cleaners

**915 MESSENGERS, PORTERS, DOORKEEPERS AND RELATED WORKERS**

9151 Messengers, package and luggage porters and deliverers

9152 Doorkeepers, watchpersons and related workers

9153 Vending-machine money collectors, meter readers and related workers

**916 GARBAGE COLLECTORS AND RELATED LABOURERS**

9161 Garbage collectors

9162 Sweepers and related labourers

**92 AGRICULTURAL, FISHERY AND RELATED LABOURERS**

**921 AGRICULTURAL, FISHERY AND RELATED LABOURERS**

9211 Farm-hands and labourers

9212 Forestry labourers

9213 Fishery, hunting and trapping labourers

**93 LABOURERS IN MINING, CONSTRUCTION, MANUFACTURING AND TRANSPORT**

**931 MINING AND CONSTRUCTION LABOURERS**

9311 Mining and quarrying labourers

9312 Construction and maintenance labourers: roads, dams and similar constructions

9313 Building construction labourers  
932 MANUFACTURING LABOURERS  
9321 Assembling labourers  
9322 Hand packers and other manufacturing labourers  
933 TRANSPORT LABOURERS AND FREIGHT HANDLERS  
9331 Hand or pedal vehicle drivers

9332 Drivers of animal-drawn vehicles and machinery  
9333 Freight handlers

**MAJOR GROUP 0**  
**ARMED FORCES**  
01 ARMED FORCES  
011 ARMED FORCES  
0110 Armed forces

## **Codes for industries**

(Nace Nomenclature)

### *Section A – Agriculture, Hunting and Forestry*

- 01.11 Growing of cereals and other crops nec.
- 01.12 Growing of vegetables a, horticultural specialties and nursery products
- 01.13 Growing of fruits, nuts, beverage and spice crops
- 01.21 Farming of cattle, dairy farming
- 01.22 Farming of sheep, goats, horses, Asses, mules and hinnies
- 01.23 Farming of swine
- 01.24 Farming of poultry
- 01.25 Other farming of animals
- 01.30 Growing of crops combined with farming of animals (mixed farming)
- 01.41 Agricultural service activities
- 01.42 Animal husbandry services, except veterinary activities
- 01.50 Hunting trapping and game propagation including related service activities

- 02.01 Forestry and logging
- 02.02 Forestry and logging related service activities

### *Section B - Fishing*

- 05.01 Fishing
- 05.02 Operation of fish hatcheries and fish farms

### *Section C – Extractive Industries*

- 10.10 Mining and agglomeration of hard coal
- 10.20 Mining and agglomeration of lignite
- 10.30 Extraction and agglomeration of peat
- 11.10 Extraction of crude petroleum and natural gas

11.20 Service activities incidental to oil and gas extraction excluding surveying

12.0 Mining of uranium and thorium ores

13.10 Mining of iron ores

13.20 Mining of non- ferrous metal ores, except uranium and thorium ores

14.11 Quarrying of stone for construction

14.12 Quarrying of limestone, gypsum and chalk

14.13 Quarrying of slate.

14.21 Operation of gravel and sand pits

14.22 Mining of clays and kaolin

14.30 Mining of chemical and fertilizer minerals

14.40 Production of salt

14.50 Other mining and quarrying nec.

### *Section D – Manufacturing Industries*

15.11 Production and preserving of meat

15.12 Production and preserving of poultry meat

15.13 Production meat and poultry meat product

15.20 Processing and preserving of fish and fish products

15.31 Processing and preserving of potatoes

15.32 Manufacture of fruit and vegetable juice

15.33 Processing and preserving of fruit and vegetables nec.

15.41 Manufacture of crude oils and fats

15.42 Manufacture of refined oils and fats

15.43 Manufacture of margarine and similar addible fats

15.51 Operation of dairies and cheese making

15.52 Manufacture of ice cream

- 15.61 Manufacture of grain mill products
- 15.62 Manufacture of starches and starch products
- 15.71 Manufacture of prepared feeds for farm animals
- 15.72 Manufacture of prepared pet foods
- 15.81 Manufacture of bread; manufacture of fresh pastry goods and cakes
- 15.82 Manufacture of crusts and biscuits; manufacture of preserved pastry goods and cakes
- 15.83 Manufacture of sugar
- 15.84 Manufacture of cocoa; chocolate and sugar confectionery
- 15.85 Manufacture of macaroni, noodles, couscous, and similar farinaceous products
- 15.86 Processing of tea and coffee
- 15.87 Manufacture of condiments and seasonings
- 15.88 Manufacture of homogenized food preparations and dietetic food
- 15.89 Manufacture of other food products nec.
- 15.91 Manufacture of distilled potable alcoholic beverages.
- 15.92 Production of ethyl alcohol from fermented materials
- 15.93 Manufacture of wines
- 15.94 Manufacture of cider and other fruit wines
- 15.95 Manufacture of other non-distilled fermented beverages
- 15.96 Manufacture of beer
- 15.97 Manufacture of mineral water and soft drinks
  
- 16.0 Manufacture of tobacco products
  
- 17.11 Preparation and spinning of cotton-type fibers
- 17.12 Preparation and spinning of woolen-type fibers
- 17.13 Preparation and spinning of worsted-type fibers
- 17.14 Preparation and spinning of flax-type fibers
  
- 17.15 Throwing and preparation of silk including from noils and throwing and texturing of synthetic or artificial filament yarns.
- 17.16 Manufacture of sewing threads
- 17.17 Preparation and spinning of other textile fibers
- 17.21 Cotton-type weaving
- 17.22 Woolen-type weaving
- 17.23 Worsted-type weaving
- 17.24 Silk-type weaving
- 17.25 Other textile weaving
- 17.30 Finishing of textiles
- 17.40 Manufacture of made-up textile articles, except apparel
- 17.51 Manufacture of carpets and rugs
- 17.52 Manufacture of cordage, rope, twine and netting
- 17.53 Manufacture of non-woven and articles made from non-woven, except apparel
- 17.54 Manufacture of other textiles nec.
- 17.60 Manufacture of knitted and crocheted fabrics
- 17.71 Manufacture of knitted and crocheted hosiery
- 17.72 Manufacture of knitted and crocheted pullovers, cardigans and similar articles
  
- 18.10 Manufacture of leather clothes
- 18.21 Manufacture of workwear
- 18.22 Manufacture of other outerwear
- 18.23 Manufacture of underwear
- 18.24 Manufacture of other wearing apparel and accessories nec.
- 18.30 Dressing and dyeing of fur; manufacture of articles of fur.
  
- 19.10 Tanning and dressing of leather
- 19.20 Manufacture of luggage, handbags and the like, saddlery and harness
- 19.30 Manufacture of footwear
  
- 20.10 Sawmilling and planing of wood, impregnation of wood
- 20.20 Manufacture of veneer sheets: manufacture plywood, laminboard,

- particle board, fibre board and other panels and boards
- 20.30 Manufacture of builder's carpentry and joinery
- 20.40 Manufacture of wooden containers
- 20.51 Manufacture of other products of wood
- 20.52 Manufacture of articles of cork, straw and plaiting materials
- 21.11 Manufacture of pulp
- 21.12 Manufacture of paper and paperboard
- 21.21 Manufacture of corrugated and paperboard and of containers of paper and paperboard
- 21.22 Manufacture of household and sanitary goods and of toilet requisites
- 21.23 Manufacture of paper stationery
- 21.24 Manufacture of wallpaper
- 21.25 Manufacture of other articles of paper and paperboard use
- 22.11 Publishing of books
- 22.12 Publishing of newspaper
- 22.13 Publishing of journals and periodicals
- 22.14 Publishing of sound recordings
- 22.15 Other publishing
- 22.21 Reproduction of sound recording
- 22.22 Reproduction of video recording
- 22.23 Reproduction of computer media
- 23.10 Manufacture of coke oven products
- 23.20 Manufacture of refined petroleum products
- 23.30 Processing of nuclear fuel
- 24.11 Manufacture of industrial gases
- 24.12 Manufacture of dyes and pigments
- 24.13 Manufacture of other inorganic basic chemicals.
- 24.14 Manufacture of other organic basic chemicals
- 24.15 Manufacture of fertilizers and nitrogen compounds
- 24.16 Manufacture of plastics in primary forms
- 24.17 Manufacture of synthetic rubber in primary forms
- 24.20 Manufacture of pesticides and other agro-chemical products
- 24.30 Manufacture of paints, varnishes and similar coatings, printing ink and mastics
- 24.41 Manufacture of basic pharmaceutical products
- 24.42 Manufacture of pharmaceutical preparations
- 24.51 Manufacture of soap and detergents, cleaning and polishing preparations
- 24.52 Manufacture of perfumes and toilet preparations
- 24.61 Manufacture of explosives
- 24.62 Manufacture of glues and gelatine
- 24.63 Manufacture of essential oils
- 24.64 Manufacture of photographic chemical material
- 24.65 Manufacture of prepared unrecorded media
- 24.66 Manufacture of other chemical products nec.
- 24.70 Manufacture of man-made fibers
- 25.11 Manufacture of rubber tires and tubes
- 25.12 Retreading and rebuilding of rubber tires
- 25.13 Manufacture of other rubber products
- 25.21 Manufacture of plastic plates, sheets, tubes and profiles
- 25.22 Manufacture of plastic packing goods
- 25.23 Manufacture of builders' ware of plastic
- 25.24 Manufacture of other plastic products
- 26.11 Manufacture of flat glass
- 26.12 Shaping and processing of flat glass
- 26.13 Manufacture of hollow glass

- 26.14 Manufacture and processing of other glass including, technical glassware
- 26.21 Manufacture of ceramic household and ornamental articles
- 26.22 Manufacture of ceramic sanitary fixtures
- 26.23 Manufacture of ceramic insulators and insulation fitting
- 26.24 Manufacture of other technical ceramic products
- 26.25 Manufacture of other ceramic products
- 26.26 Manufacture of refractory ceramic products
- 26.30 Manufacture of ceramic tiles and flags.
- 26.40 Manufacture of bricks, tiles and construction products, in baked clay
- 26.51 Manufacture of cement
- 26.52 Manufacture of lime
- 26.53 Manufacture of plaster
- 26.61 Manufacture of concrete products for construction purposes
- 26.62 Manufacture of plaster products for construction purposes
- 26.63 Manufacture of ready-mixed concrete
- 26.64 Manufacture of mortars
- 26.65 Manufacture of fibro-cement
- 26.66 Manufacture of other articles of concrete, plaster and cement
- 26.70 Cutting, shaping and finishing of stone
- 26.81 Production of abrasive products
- 26.82 Manufacture of other non- metallic mineral products nec.
- 27.10 Manufacture of basic iron and steel and of ferro-alloys (ECSC)
- 27.21 Manufacture of cast iron tubes
- 27.22 Manufacture of steel tubes
- 27.31 Cold drawing
- 27.32 Cold rolling of narrow strip
- 27.33 Cold forming or folding
- 27.34 Wire drawing
- 27.35 Other first processing of iron and steel nec,; production of non ECSC ferro-alloys
- 27.41 Precious metals production
- 27.42 Aluminium production
- 27.43 Lead, zinc and tin production
- 27.44 Copper production
- 27.45 Other non- ferrous metal production
- 27.51 Casting of iron
- 27.52 Casting of steel
- 27.53 Casting of light metals
- 27.54 Casting of other non- ferrous metals
- 28.11 Manufacture of metal structures and parts of structures
- 28.12 Manufacture of builders' carpentry and joinery of metal
- 28.21 Manufacture of tanks, reservoirs and containers of metal
- 28.22 Manufacture of central heating radiators and boilers.
- 28.30 Manufacture of steam generators except central heating hot water boilers
- 28.40 Forging, pressing, stamping and roll- forming of metal; powder metallurgy
- 28.51 Treatment and coating of metals
- 28.52 General mechanical engineering
- 28.61 Manufacture of cutlery
- 28.62 Manufacture of tools
- 28.63 Manufacture of locks and hinges
- 28.71 Manufacture of steel drums and similar containers
- 28.72 Manufacture of light metal packaging
- 28.73 Manufacture of wire products
- 28.74 Manufacture of fasteners, Screw machine products, chain and springs
- 28.75 Manufacture of other fabricated metal products nec.
- 29.11 Manufacture of engines and turbines except aircraft, vehicle and cycle engines

- 29.12 Manufacture of pump and compressors
- 29.13 Manufacture of taps and valves
- 29.14 Manufacture of bearing, gears, gearing and driving elements
- 29.21 Manufacture of furnaces and furnace burners
- 29.22 Manufacture of lifting and handling equipment
- 29.23 Manufacture of non-domestic cooling and ventilation equipment
- 29.24 Manufacture of other general purpose machinery nec.
- 29.31 Manufacture of agricultural tractors
- 29.32 Manufacture of other agricultural and forestry machinery
- 29.40 Manufacture of machine-tools
- 29.51 Manufacture of machinery for metallurgy
- 29.52 Manufacture of machinery for mining, quarrying and construction
- 29.53 Manufacture of machinery for food, beverage and tobacco processing
- 29.54 Manufacture of machinery for textile, apparel and leather production
- 29.55 Manufacture of machinery for paper and paperboard production
- 29.56 Manufacture of other special purpose machinery nec.
- 29.60 Manufacture of weapons and ammunition
- 29.71 Manufacture of electric domestic appliances
- 29.72 Manufacture of non-electric domestic appliances
  
- 30.01 Manufacture of office machinery.
- 30.02 Manufacture of computers and other information processing equipment
  
- 31.10 Manufacture of electric motors, generators and transformers
- 31.20 Manufacture of electricity distribution and control apparatus
- 31.30 Manufacture of insulated wire and cable
  
- 31.40 Manufacture of accumulators, primary cells and primary batteries
- 31.50 Manufacture of lighting equipment and electric lamps
- 31.61 Manufacture of electrical equipment for engines and vehicles nec.
- 31.62 Manufacture of other electrical equipment nec.
  
- 32.10 Manufacture of electronic valves and tubes and other electronic components
- 32.20 Manufacture of television and radio transmitters and apparatus for line telephony and line telegraphy
- 32.30 Manufacture of television and radio receivers, sound or video recording or reproducing apparatus and associated goods
  
- 33.10 Manufacture of medical and surgical equipment and orthopedic appliances
- 33.20 Manufacture of instruments and appliances for measuring, checking, testing, navigating and other purposes, except industrial process control equipment
- 33.30 Manufacture of industrial process control equipment
- 33.40 Manufacture of optical instruments and photographic equipment
- 33.50 Manufacture of watches and clocks
  
- 34.10 Manufacture of motor vehicles
- 34.20 Manufacture of bodies for motor vehicles; manufacture of trailers and semi- trailers
- 34.30 Manufacture of parts and accessories for motor vehicles and their engines
  
- 35.11 Building and repairing of ships
- 35.12 Building and repairing and sporting boats
- 35.20 Manufacture of railway and tramway locomotives and rolling stock

35.30 Manufacture of aircraft and spacecraft.  
35.41 Manufacture of motorcycles  
35.42 Manufacture of bicycles  
35.43 Manufacture of invalid carriages  
35.50 Manufacture of other transport equipment nec.  
  
36.11 Manufacture of chairs and seats  
36.12 Manufacture of other office and shop furniture  
36.13 Manufacture of other kitchen furniture  
36.14 Manufacture of other furniture  
36.15 Manufacture of mattresses  
36.21 Striking of coins and medals  
36.22 Manufacture of jewelry and related articles nec.  
36.30 Manufacture of musical instrument  
36.40 Manufacture of sports goods  
36.50 Manufacture of games and toys  
36.61 Manufacture of imitation jewelry  
36.62 Manufacture of brooms and brushes  
36.63 Other manufacturing nec.

37.10 Recycling of metal waste and scrap  
37.20 Recycling of non- metal waste and scrap

*Section E-Production of electricity, gas and water*

40.10 Production and distribution of electricity  
40.20 Manufacture of gas; distribution of gaseous fuels through mains  
40.30 Steam and hot water supply

41.0 Collection, purification and distribution of water

*Section F - Construction*

45.11 Demolition and wrecking of buildings; earth moving  
45.12 Test drilling and boring  
45.21 General construction of buildings and civil engineering works  
45.22 Erection of roof and frames

45.23 Construction of highways, roads, airfields and sport facilities  
45.24 Construction of water projects.  
45.25 Other construction work involving special trades  
45.31 Installation of electrical wiring and fitting  
45.32 Insulation work activities  
45.33 Plumbing  
45.34 Other building installation  
45.41 Plastering  
45.42 Joinery installation  
45.43 Floor and wall covering  
45.44 Painting and glazing  
45.45 Other building completion  
45.50 Renting of construction or demolition equipment with operator

*Section G - Wholesale and Retail Trades; repairs to motor vehicles and domestic appliances*

50.10 Sale of motor vehicles  
50.20 Maintenance and repair of motor vehicles  
50.30 Sale of motor vehicle parts and accessories  
50.40 Sale, maintenance and repair of motorcycles and related parts and accessories  
50.50 Retail sale of automotive fuel

51.11 Agents involved in the sale of agricultural raw materials, live animals, textile raw materials and semi- finished goods  
51.12 Agents involved in sale of fuels, ores, metals and industrial chemicals  
51.13 Agents involved in the sale of timber and building materials  
51.14 Agents involved in the sale of machinery, industrial equipment, ships and aircraft  
51.15 Agents involved in the sale of furniture, household goods, hardware and iron mongery

- 51.16 Agents involved in the sale of textiles, clothing, footwear and leather goods
- 51.17 Agents involved in the sale of food, beverages and tobacco
- 51.18 Agents specializing in the sale of particular products or ranges of products nec.
- 51.19 Agents involved in the sale of a variety of goods
- 51.20 Wholesale of grain, seeds and animal feeds
- 51.21 Wholesale of flowers and plants
- 51.22 Wholesale of live animals
- 51.23 Wholesale of hides, skin and leather
- 51.24 Wholesale of manufactures tobacco
- 51.31 Wholesale of fruit and vegetables
- 51.32 Wholesale of meat and meat products
- 51.33 Wholesale of dairy produce, eggs and edible oils fats.
- 51.34 Wholesale of alcoholic and other beverages
- 51.35 Wholesale of tobacco products
- 51.36 Wholesale of sugar and chocolate and sugar confectionery
- 51.37 Wholesale of coffee, tea, cocoa and spices
- 51.38 Wholesale of other food including fish, crustaceans and molluscs
- 51.39 Non-specialized wholesale of food, beverages and tobacco
- 51.41 Wholesale of textiles
- 51.42 Wholesale of clothing and footwear
- 51.43 Wholesale of electrical household appliances and radio and television goods
- 51.44 Wholesale of china and glassware, wallpaper and cleaning materials
- 51.45 Wholesale of perfume and cosmetics
- 51.46 Wholesale of pharmaceutical goods
- 51.47 Wholesale of other household goods
- 51.51 Wholesale of solid, liquid and gaseous fuels and related products
- 51.52 Wholesale of metals and metal ores
- 51.53 Wholesale of wood, construction materials and sanitary equipment supplies
- 51.54 Wholesale of hardware, plumbing and heating equipment and supplies
- 51.55 Wholesale of chemical products
- 51.56 Wholesale of other intermediate products
- 51.57 Wholesale of waste and scrap
- 51.61 Wholesale of machine tools
- 51.62 Wholesale of construction machinery
- 51.63 Wholesale of machinery for the textile industry, and of sewing and knitting machines
- 51.64 Wholesale of office machinery and equipment
- 51.65 Wholesale of other machinery for use in industry, trade and navigation
- 51.66 Wholesale of agricultural machinery and accessories and implements, including tractors
- 51.70 Other wholesale
- 52.11 Retail sale in non-specialized stores with food, beverages or tobacco predominating
- 52.12 Other retail sale in non-specialized stores
- 52.21 Retail sale of fruit and vegetables
- 52.22 Retail sale of meat and meat products
- 52.23 Retail sale of fish, crustaceans and shells
- 52.24 Retail sale of bread, cakes, flour confectionery and sugar confectionery
- 52.25 Retail sale of alcoholic and other beverages
- 52.26 Retail sale of tobacco products
- 52.27 Other retail sale of food, beverages and tobacco in specialized stores
- 52.31 Dispensing chemists
- 52.32 Retail sale of medical and orthopedic goods

52.33 Retail sale of cosmetics and toilet articles.

52.41 Retail sale of textiles

52.42 Retail sale of clothing

52.43 Retail sale of footwear and leather goods

52.44 Retail sale of furniture, lighting equipment and household articles nec.

52.45 Retail sale of electrical household appliances and radio and television goods

52.46 Retail sale of hardware, paints and glass

52.47 Retail sale of books, newspapers and stationery

52.48 Other retail sale in specialized stores

52.49 Retail sale of second-hand goods in stores

52.61 Retail sale via mail order houses

52.62 Retail sale via stalls and markets

52.63 Other non-store retail sale

52.71 Repair of boots, shoes and other articles

52.72 Repair of electrical household goods

52.73 Repair of watches, clocks and jewelry

52.74 Repair nec.

*Section H-Hotels and restaurants*

55.11 Hotel and motels, with restaurant

55.12 Hotels and motels, without restaurants

55.21 Youth hotels and mountain refuges

55.22 Camp sites, including caravan sites

55.23 Other provision of lodgings nec.

55.30 Restaurants

55.40 Bars

55.51 Canteens

55.52 Catering

*Section I - Transport, storage and warehousing and communications*

60.10 Transport via railways

60.21 Other scheduled passenger land transport

60.22 Taxi operation

60.23 Other land passenger transport

60.24 Freight transport by road

60.30 Transport via pipelines.

61.10 Sea and coastal water transport

61.20 Inland water transport

62.10 Scheduled air transport

62.20 Non-scheduled air transport

62.30 Space transport

63.11 Cargo handling

63.12 Storage and warehousing

63.21 Other supporting land transport activities

63.22 Other supporting water transport activities

63.23 Other supporting air transport activities

63.30 Activities of travel agencies and tour operators; tourist assistance activities nec.

63.40 Activities of other transport agencies

64.11 National post activities

64.12 Courier activities other than national post activities

64.20 Telecommunications

*Section J-Financial intermediation*

65.11 Central banking

65.12 Other monetary intermediation

65.21 Financial leasing

65.22 Other credit granting

65.23 Other financial intermediation nec.

66.01 Life insurance

66.02 Pension funding

66.03 Non-life insurance

67.11 Administration of financial markets

67.12 Security broking and fund management

67.13 Activities auxiliary to financial intermediation nec.

67.20 Activities auxiliary to insurance and pension funding.

*Section K - Real estate, renting and business activities*

- 70.11 Development and selling of real estate
- 70.12 Buying and selling of own real estate
- 70.20 Letting of own property
- 70.31 Real estate agencies
- 70.32 Management of real estate on fee or contract basis
  
- 71.10 Renting of automobiles
- 71.21 Renting of other land transport equipment
- 71.22 Renting of water transport equipment
- 71.23 Renting of air transport equipment
- 71.31 Renting of agricultural machinery and equipment
- 71.32 Renting of construction and civil engineering machinery and equipment
- 71.33 Renting of office machinery and equipment, including computers
- 71.34 Renting of other machinery and equipment nec.
- 71.40 Renting of personal and household goods nec.
  
- 72.10 Hardware consultancy
- 72.20 Software of consultancy and supply
- 72.30 Data processing
- 72.40 Data base activities
- 72.50 Maintenance and repair of office, accounting and computing machinery
- 72.60 Other computer related activities
  
- 73.10 Research and experimental development on natural and engineering
- 73.20 Research and experimental development on social sciences and humanities
  
- 74.11 Legal activities
- 74.12 Accounting, book-keeping and auditing activities; tax consultancy
- 74.13 Market research and public opinion polling
- 74.14 Business and management consultancy activities
- 74.15 Management activities of holding companies
- 74.20 Architectural and engineering activities and related technical consultancy
- 74.30 Technical testing and analysis.
- 74.40 Advertising
- 74.50 Labour recruitment and provision of personnel
- 74.60 Investigation and security activities
- 74.70 Industrial cleaning
- 74.81 Photographic activities
- 74.82 Packaging activities
- 74.83 Secretarial and translation activities
- 74.84 Other business activities nec.
  
- Section L- Public administration and defence; compulsory social insurance*
- 75.11 General (overall) public service activities
- 75.12 Regulation of the activities of agencies that provide health care, education, cultural services and other social services excluding social security
- 75.13 Regulation of and contribution to more efficient operation of business
- 75.14 Supporting service activities for the government as a whole
- 75.21 Foreign affairs
- 75.22 Defence activities
- 75.23 Justice and judicial activities
- 75.24 Public security, law and order activities
- 75.25 Fire service activities
- 75.30 Compulsory social security activities
  
- Section M – Education*
- 80.11 Primary education
- 80.21 General secondary education
- 80.22 Technical and vocational secondary education
- 80.30 Higher education

80.41 Driving school activities  
80.42 Adult and other education nec.

*Section N - Health and social work*

85.11 Hospital activities  
85.12 Medical practice activities  
85.13 Dental practice activities  
85.14 Other human health activities.

85.20 Veterinary activities  
85.31 Social work activities with  
accommodation  
85.32 Social work activities without  
accommodation

*Section O – Other community, social and  
personal service activities*

90.0 Sewage and refuse disposal,  
sanitation and similar activities

91.11 Activities of business and  
employers' organizations  
91.12 Activities of professional  
organizations  
91.20 Activities of trade unions  
91.31 Activities of religious organization  
91.32 Activities of political organizations  
91.33 Activities of other membership  
organizations nec.

92.11 Motion picture and video  
production  
92.12 Motion picture and video  
distribution  
92.13 Motion picture projection

92.20 Radio and television activities  
92.31 Artistic and literary creation and  
interpretation  
92.32 Operation of arts facilities  
92.33 Fair and amusement park activities  
92.34 Other entertainment activities nec.  
92.40 News agencies activities  
92.51 Library and archives activities  
92.52 Museum activities and  
preservation of historical sites and  
buildings  
92.53 Botanical and ecological gardens  
and nature reserves activities  
92.61 Operation of sports arenas and  
stadiums  
92.62 Other sporting activities nec.  
92.71 Gambling and betting activities  
92.72 Other recreational activities nec.

93.01 Washing and dry cleaning of  
textile and fur products  
93.02 Hairdressing and other beauty  
treatment  
93.03 Funeral and related activities  
93.04 Physical well-being activities  
93.05 Other service activities nec..

*Section P – Private household with  
employed persons*

95.0 Private household with employed  
person

*Section Q – Extra-territorial  
organizations and bodies*

99.00 Extra-territorial organization and  
bodies

## Annex 5 Reports on the implementation of the sample

### Annex 5.1 Sample implementation report



To: LSMS Albania Staff

From: **Ms. Blerina Zykaj**

Date: \_\_\_\_\_

The Republic of Albania is divided geographically into 12 Prefectures (*Prefekturat*). The latter are divided into Districts (*Rrethet*) which are, in turn, divided into Cities (*Qyteti*) and Communes (*Komunat*). The Communes contain all the rural villages and the very small cities. For census purposes, the cities and the villages have been divided into enumeration areas (EAs).

#### 1. Sampling frame

The Enumeration Areas (EA) that make up the sampling frame come from the April 2001 General Census of Population and Housing. The EAs in the frame are classified by Prefecture, District, City or Commune. The frame also contains, for every EA, the number of Housing Units (HU), the number of occupied HUs, the number of unoccupied HUs, the number of households, and the population. We are using occupied dwellings and not total number of dwellings since many EAs contain a large number of empty dwellings.

A detailed study of the list of census EAs shows that many have zero population. In order to obtain EAs with the minimum of 50 and the maximum of 120 occupied housing units, the EAs with zero population have been taken off the sampling frame. Since the sizes of the EAs varied from 0 to 395 HUs, the smaller EAs (with less than 50 HU) have been collapsed with geographically adjacent ones and the largest EAs (with more than 120 HU) have been split into two or more EAs. Subsequently, maps identifying the boundaries of every split and collapsed EA were prepared.

Given that the 2002 LSMS has been conducted less than a year after the April 2001 census, a listing operation to update the sample EAs was not conducted in the field. However, since the level of construction is very high in the city of Tirana and its suburbs, a quick count of the 75 sample EAs selected in Tirana was carried out followed by a listing operation. The check of the listing based on the Census data revealed two types of discrepancies:

- HUs had become invalid, i.e. vacant, nonresidential, demolished, seasonally occupied, etc.
- Instead of one small building (with one or two HU), a new one with 15 HUs was identified.

During of the listing update process, HUs identified as invalid were taken off the frame. In the case of a new building, these new HUs were entered with a new sequential code. The listing sheets prepared during the listing operation in Tirana, become the sampling frame for the final stage of selection of 12 HU which has to be interviewed.

The unit of analysis and the unit of observation is the household. The universe under study consists of all the households in the Republic of Albania. We have used the Housing Unit (defined as the space occupied by one household) as the sampling unit, instead of the household, because the HU is more permanent and easier to identify in the field.

## 2. Sample Size

In the LSMS the sample size is 450 EA and in each EA 8 households were selected. So the total sample size of the LSMS is 3600 households. In addition, since a certain level of nonresponse is expected, 4 reserve units were selected in each sample EA.

## 3. Stratification

The sampling frame has been divided in three regions (strata)

1. Coastal Area
2. Central Area
3. Mountain Area

and Tirana (urban and other urban) is consider as a separate strata.

The first three strata were divided into major cities (the most important cities in the region), other urban (the rest of cities in the region), and rural. (See Table 1). In each more importance was given to the major cities and rural areas. We have selected 10 EA for each major city and 65 EAs (75 EAs for Mountain Area) for each region (see table 2).

In the city of Tirana and its suburbs, implicit stratification was used to improve the efficiency of the sample design.

## 4. Procedure for the Selection of Housing Units

A fixed number of valid dwelling units (12) was selected systematically and with equal probability from the Listing Form pertaining to Tirana and from the Census forms for the other areas. Once the 12 HUs were selected, 4 of them were chosen at random and kept as reserve units. The selected HUs were numbered within the EA and identified with a circle around the number in the listing form, as well as a circle on the maps. The reserve sample (units 9 to 12) were identified from R1 to R4 during data collection to emphasize the fact that they were reserve units.

Two copies of the sample listing sheets and two copies of maps for each EA were printed. The first copy of the listing sheet and the map were given to the supervisor and included the 12 HU, the second copy was given to the enumerator. The enumerator only received the 8 dwelling units, not the reserve ones. Each time the enumerator needed a reserve HU, he/she had to ask the supervisor and explain the reason why a reserve unit was needed. This process helped determine the reason why reserve units were used and provided more control on their use.

In the field the enumerator registered the occupancy status of every unit:

- occupied as principal residence
- vacant
- under construction (not occupied)
- demolished or abandoned (not occupied)
- seasonally occupied

In the case that one HU was found to be invalid, the enumerator used the first reserve unit (identified with the code R1). In the case that in one EA more than 4 DU selected were invalid, other units from that EA chosen at random by headquarter (in Tirana) were selected as replacement units to keep the enumerator load constant and maintain a uniform sample size in each EA.

Before identifying the invalid HUs, the interviewer had to note the interview status of each visit for all the units for which an interview was attempted, whether these are original units or reserve units. This was done to determine the interview status: interview completed, nonresponse, refusal, etc. In other words, this will allow identifying: the completed interviews (responses obtained), the incomplete but usable ones (responses obtained), the incomplete ones but not usable (nonresponse), the refusals (nonresponse) and the "not at home" (nonresponse). Subsequently, the invalid units identified were substituted with the available reserves, always maintaining the sample of 8 HUs.

**TABLE 1**

*Domains of Estimation (Regions)*  
*Districts, Major Cities and Other Urban Cities in the Domains of Estimation*

<b>Regions</b>	<b>Districts in the Regions</b>	<i>Major Cities</i>	<i>Other Urban Cities</i>
<b>Region 1</b> Coastal area	Lezhë Kurbın Kavajë Mallakaster Lushnje Delvine Sarande Durrës Fier Vlore	Durrës Fier Vlore	Lezhë Kurbın Kavajë Mallakaster Lushnje Delvine Sarande Durrës
<b>Region 2</b> Central Area	Devoll Kolonjë Pogradec Mirdite Puke Malesi e Madhe Mat Kuçove Skrapar Krujë Peqin Gjirokastër Permet Tepelenë Shkoder Elbasan Berat Korçë Tirana (rural)	Shkoder Elbasan Berat Korçë	Devoll Kolonjë Pogradec Mirdite Puke Malesi e Madhe Mat Kuçove Skrapar Krujë Peqin Gjirokastër Permet Tepelenë
<b>Region 3</b> Mountain Area	Kukes Has Tropoje Bulqize Diber Gramsh Librazhd	no major cities	Kukes Has Tropoje Bulqize Diber Gramsh Librazhd
<b>Tirana</b>	Tirana urban Tirana other urban		

**TABLE 2**

**Distribution of EAs and Sample Size by Domain of Estimation**

Domain	<u>Total EAs in the Frame</u>	<u>Total EAs in the Sample</u>	<u>Total HUs in the Sample</u>
<b><i>Coastal Area</i></b>	2704	125	1000
<i>Major Cities</i>	715	30	240
Other Urban	510	30	240
Rural	1479	65	520
<b><i>Central Area</i></b>	3858	125	1000
<i>Major Cities</i>	800	30	320
Other Urban	573	20	160
Rural	2485	65	520
<b><i>Mountain Area</i></b>	830	125	1000
Other Urban	172	50	400
Rural	658	75	600
<b>Tirana (urban and other urban)</b>	1075	75	600
<b>Total</b>	8467 EAs	<b>450 EAs</b>	<b>3600 HUs</b>