

Basic Information Document

Albania Panel Survey 2004

Albania Institute of Statistics (INSTAT)

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I. Introduction

Over the past decade, Albania has been undergoing a transition toward a market economy and a more open society. It has faced severe internal and external challenges, such as lack of basic infrastructure, rapid collapse of output and inflation rise after the collapse of the communist regime, turmoil during the 1997 pyramid crisis, and social and economic instability because of the 1999 Kosovo crisis. Despite these shocks, Albanian economy has recovered from a very low income level through a sustained growth during the past few years, even though it remains one of the poorest countries in Europe, with GDP per capita at around 1,300\$.

Based on the Living Standard Measurement Study (LSMS) 2002 survey data (wave 1, henceforth), for the first time in Albania INSTAT has computed an absolute poverty line on a nationally representative poverty survey at household level. Based on this welfare measure, one quarter (25.4 percent) of the Albanian population, or close to 790,000 individuals, were defined as poor in 2002. The distribution of poverty is also disproportionately rural, as 68 percent of the poor are in rural areas, against 32 percent in urban areas (as compared to a total urban population well over 40 percent). These estimates are quite sensitive to the choice of the poverty line, as there are a large number of households clustered around the poverty line. Income related poverty is compounded by the severe lack of access to basic infrastructure, education and health services, clean water, etc., and the ability of the Government to address these issues is complicated by high levels of internal and external migration that are not well understood.

The availability of a nationally representative survey is crucial as the paucity of household-level information has been a constraining factor in the design, implementation and evaluation of economic and social programs in Albania. Two recent surveys carried out by the Albanian Institute of Statistics (INSTAT) –the 1998 Living Conditions Survey (LCS) and the 2000 Household Budget Survey (HBS)– drew attention, once again, to the need for accurately measuring household welfare according to well-accepted standards, and for monitoring these trends on a regular basis. This target is well-achieved by drawing information over time on a panel component of LSMS 2002 households, namely the Albanian Panel Survey (APS), conducted in 2003 and 2004.

An increasing attention to the policies aimed at achieving the Millennium Development Goals (MDGs) is paid by the National Parliament of Albania, recently witnessed by the resolution approved in July 2003, where it pushes “[...] the total commitment of both state structures and civil society to achieve the MDGs in Albania by 2015”. The path towards a sustained growth is constantly monitored through the National Reports on Progress toward Achieving the MDGs, which involves a close collaboration of the UN with the national institutions, led by the National Strategy for Social and Economic Development (NSSED) Department of the Ministry of Finance. Also, in the process leading to the Poverty Reduction Strategy Paper (PRSP; also known in Albania as Growth and Poverty Reduction Strategy, GPRS), the Government of Albania reinforced its commitment to strengthening its own capacity to collect and analyze on a regular basis information it needs to inform policy-makers.

In its first phase (2001-2006), this monitoring system will include the following data collection instruments: (i) Population and Housing Census; (ii) Living Standards Measurement Surveys every 3 years, and (iii) annual panel surveys.

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 (APS 2003, 2004 and 2006), drawing heavily on the 2001 census information. Here our target is to illustrate the main characteristics of the APS 2004 data with reference to the LSMS.

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 the survey. Section II summarizes the content of the survey instruments used. Section III focuses on the details of the sample design. Section IV describes fieldwork procedures and training received by survey staff. Section V reviews data entry and cleaning. Finally, section VI contains directions useful for users.

II. Survey Instruments

A single questionnaire on households has been used to collect information in the APS 2004. Contrary to the LSMS 2002 survey (see Basic Information Document, 2003), both in 2003 and 2004 the Diary for Household Consumption (the “booklet”), the Community questionnaire and the Price questionnaire were not repeated. The target is to collect a similar set of information (only data comparable across time is suitable for a longitudinal analysis) through a less lengthy and simpler questionnaire.

The household questionnaire has drawn heavily on the earlier APS 2003’s -a reduced version of the 2002’s-, but useful features have been added. Main changes are that data on credit have not been collected, the module on migration has been slightly reduced, while an additional section on remittances and a detailed module on social capital has been introduced. An additional module which collects data using pedometers on the distance (in kilometers) to the place of study and work of a sub-sample of interviewed households was introduced at an experimental level. Table 1 provides a broad overview of the modules included in the APS 2004 household questionnaire. Annex 2 provides a detailed description of the variables included in each module and their comparison with the APS 2003 ones.

The choice of sections 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-frame used) was adapted to fit the Albanian reality. Nevertheless, as consumption data are not available, the LSMS 2002 survey still represents the main household dataset for poverty analysis and evaluation.

Household membership is defined as being an actual resident or away from the household for less than six months¹. Deceased individuals, lodgers, hired workers and servants are never considered household members. Individual in charge of answering the questionnaire is, usually, the most knowledgeable person about the specific matter. For the *roster* sheet for issued households, the one in charge of answering is the one designated by household members as the

¹ The exceptions being: the household head even though he might be away from the household for up to 11 months; infants less than 6 months; new arrivals (such as newly married) to the household.

Table 1. Contents of the APS 2004 household questionnaire

Module	Broad description of information collected	Respondent
<i>Cover page</i> File: Metadata	Enumerator, supervisor, and data entry operator information. District, municipality, and home address. Household head, PSU and household number. Details of new address in case of moves.	Compiled by the enumerator
<i>Household roster</i> (Module 1. Original and split-off households) File HHroster	Names of all household members, relationship to the head, age, marital status and identification of spouse, ethnicity and religion, actual presence in the household over one year period, identification of actual household members as defined in the survey. Date, reason for leaving, destination for those who permanently moved and information on migration for those who have migrated and permanently left the household.	Head of the household or, if not available, "principal respondent"
<i>Dwelling, utilities and durable goods</i> (Module 2) Files Dwelling, Numdurables	Part A. Dwelling: type, construction, age, conditions, size, length of residence, number and use of rooms, ownership, rent (potential or actual), availability of services (toilets, garage, etc.). Part B. Utilities: Access, quality and cost of water, central heating, electricity, other energy and fuel sources, and telephone. Part C. Durables: Ownership, description, age and value of household durable goods (TV, refrigerator, car, etc.).	Most knowledgeable person
<i>Education</i> (Module 3. Original and new members) Files: Educationorig, educationnew	Part A. Original members. Attendance, type of school, costs in the past year. Part B. New entrants. School: Reading ability, school attendance, level and grades completed, highest diploma obtained, school attended (attendance, quality, costs, distance, scholarships), reasons for not attending/enrolling.	Most knowledgeable person
<i>Communication</i> (Module 4) File:communication	Details of internet and mobile phone use.	Most knowledgeable person
<i>Health</i> (Module 5) Files: health, fertility.	Part A. General health status: Occurrence of chronic and sudden illnesses, subjective health assessment, use and cost of health services (including hospitals) and medicines. Part B. Maternity history: Children born from each woman in the household, and information on their age, residence, sex, schooling.	All members 15 and older All women 15 years and older
<i>Labor</i> (Module 6) Files: labora, laborb, laborc, labord.	Part A. Labor force participation: Current employment status and efforts to find job if unemployed Part B. Overview last 7 days: Occupation(s) in the last 7 days, and weeks worked in the same occupation(s) over last 12 months.	All members age 15 and older

	<p>Part C. Main and secondary job in the last 7 days: workplace, length of current occupation, type of work/employment, social security, earnings and benefits.</p> <p>Part D. Employment Grid: details of each spell in and out of employment/non-employment over last 12 months.</p>	
<p><i>Migration</i> (Module 7) File: migrationa</p>	<p>Information on whether each household member is originally from the municipality, whether he has moved to and from the municipality, for how long and for what reasons, with particular detail for the period January 1990 to June 2003 and after 1 June 2003. It asks occupation information when moved and distinguishes between moving to other places in Albania and moving abroad.</p>	<p>Most knowledgeable person</p>
<p><i>Agriculture</i> (Module 8) Files: agriculturea1, agriculturea2, agricultureb1, agricultureb2.</p>	<p>Part A1. Own plots: Size and quality of own agricultural land, crops planted, method of acquisition and legal title.</p> <p>Part A2. Rented plots: Size and quality of agricultural land, crops planted, sharecropping.</p> <p>Part B1 Livestock: Animals owned by type.</p> <p>Part B2. Access to Land: possibility of access, use of not owned land, owner of the land, amount paid to access the land.</p>	<p>Person most knowledgeable about agriculture</p>
<p><i>Subjective poverty</i> (Module 10) Files: subjectivea, subjectiveb.</p>	<p>Part A. Subjective assessment of: household financial situation in absolute and relative/comparative terms; household ability to meet basic needs; own position on a poverty ladder; overall satisfaction and concerns/prospect about the future.</p> <p>Part B. Social Capital: membership of a group or network, characteristics and interaction of the group with the others. Trust and solidarity. Collective action and cooperation. Social cohesion and inclusion. Employment and political action.</p>	<p>Person who answered previous year, household head or spouse if the first is not present.</p>
<p><i>Household interview outcome</i> (Module 11) File: outcome.</p>	<p>Place of the interview, interview outcome.</p>	<p>Interviewer.</p>
<p><i>Social assistance</i> (Module 12) File: socialassistance</p>	<p>Social assistance: Payments received and eligibility to benefits from various sources of social assistance, amount received, reference time of arrears.</p>	<p>Most knowledgeable person</p>
<p><i>Remittances and other income</i> (Module 13) Files: remittancesa, remittancesb</p>	<p>Part A Remittances. Name of the remitting person, relationship to the household, amount remitted.</p> <p>Part B. Other income. Rental income, revenue from sale of assets, other income.</p>	<p>Most knowledgeable person</p>

household head. If he/she is not available, a “principle respondent” is found. For the other questionnaire sections, identification codes of respondents indicate who provides information. In some modules where information is referred to individual, such as labor and health, each household member is asked to answer for him/herself (see last column in Table 1). From wave 2, only individuals over 14 years old are eligible for interview.

As for the coding, ISCO (1988) and NACE codes are used for employment and industry activities, respectively. The list of codes can be found in Annex 4. Information on how to obtain copies of the questionnaire (and all other documentation available) is provided in Annex 1.

III. Sample Design

The APS 2004 collects information on 1,797 valid observations at household level and 7,476 at individual level. The sample of the second and third waves of the panel (APS) has been selected from the LSMS 2002 in order to be representative of Albanian households and individuals at national level. The LSMS 2002 differs from the APS 2003 and 2004 in that the former is designed to be representative at regional level (Mountain, Central, Coastal and Tirana) as well as for urban and rural domains, while the latter are for last domains only (urban and rural)

LSMS 2002 sample design²

The LSMS is based on a probability sample of housing units (*HUs*) within the 16 strata of the sampling frame. It is divided in three regions: Coastal, Central, and Mountain Area. In addition, urban areas of Tirana are also considered as a separate region/stratum. The three regions are further stratified in major cities (the most important cities in the region), other urban (other cities in the region), and rural. The city of Tirana and its suburbs have been implicitly stratified to improve the efficiency of the sample design.

Each stratum has been divided in Enumeration Area (*EA*), in accordance with the 2001 Census data, and each Primary Sampling Unit (*PSU*) selected with probabilities proportional to the number of occupied *HUs* in the *EA*. Every *EA* includes occupied and unoccupied *HUs*. Occupied rather than total units have been used because of the large amount of empty dwellings registered in the Census data.

The Housing Unit, defined as the space occupied by one household, is taken as sampling unit because is more permanent and easy to identify compared to the household. 10 *EAs* for each major city (75 for Tirana) and 65 *EAs* for each rural region -with the exception of the mountain area which is over-represented (75 *EAs*)- are selected. 8 households, plus 4 eventual substitutes, have been systematically selected in each *EAs*. As the LSMS consists of 450 *EAs*, total sample size is 3,600 households³.

The sample is not self-weighted, hence to obtain correct estimates data need to be weighted. The weights, at household level, are included in the dataset (“weights” file). When working at individual level, household weights must be multiplied by household size. Table 2 shows the 2002 LSMS sample distribution.

² For additional insights see Basic Information Document (2003).

³ The actual 2002 sample is 3,599 because one household was non-respondent.

Table 2. LSMS 2002: EAs, population and households in sample distribution across strata

Domain	EAs in the frame	EAs in the sample	Households in population		Households in the sample	
			No.	%	No.	%
Costal	2,704	125	221,760	30.5	1,000	27.8
<i>Major cities</i>	715	30	57,814	7.9	240	6.7
Durres		10	24,323	3.3	80	2.2
Fier		10	14,098	1.9	80	2.2
Vlore		10	19,393	2.7	80	2.2
<i>Other Urban^a</i>	510	30	41,199	5.7	240	6.7
<i>Rural</i>	1,479	65	122,747	16.9	520	14.4
Cental	3,858	125	314,392	43.2	1,000	27.6
<i>Major cities</i>	800	40	64,655	8.9	320	8.8
Shkoder		10	20,331	2.8	80	2.2
Elbasan		10	20,604	2.8	80	2.2
Berat		10	9,841	1.4	80	2.2
Korce		10	13,879	1.9	80	2.2
<i>Other urban^b</i>	573	20	46,724	6.4	160	4.4
<i>Rural</i>	2,485	65	203,013	27.9	520	14.4
Mountain	830	125	68,105	9.4	1000	27.8
<i>Other urban^c</i>	172	50	15,044	2.1	400	11.1
<i>Rural</i>	658	75	53,061	7.3	600	16.7
Tirana	1,075	75	122,638	16.8	600	16.7
<i>Blue: low poverty</i>			34,483	4.7		3.8
<i>Red: Medium poverty</i>			50,934	7.0		6.9
<i>Green: High poverty</i>			37,221	5.1		6.0
Total	8,467	450	726,895		3,600	

Note a: Lezhe, Kurbin, Kavaje, Mallakaster, Lushnje, Delvine, Sarande and Durres.

Note b: Devoll, Kolonje, Pogradec, Mirdite, Puke, Malesi e Madhe, Mat, Kucove, Skrapar, Kruje, Peqin, Gjirokaster, Permet and Tepelene.

Note c: Kules, Has, Tropoje, Bulqize, Diber, Gramsh and Librazhd.

APS 2003-2004 sample design⁴

The panel component selected from the LSMS is designed to provide a nationally representative sample of households and individuals within Albania. It consists of roughly half of the households in the 2002 LSMS, interviewed both in 2003 and 2004. Contrarily to what done for the LSMS, no over-sampling in the Mountain Area has been performed for the panel survey.

The sample is designed to minimize the variability in households' selection probabilities. It insures national representativeness by matching the sample distribution across strata with the population distribution drawn from 2001 Census data. In Table 3 the *ex-ante* sampling scheme of the 2003-2004 APS is shown.

⁴ See also Basic Document (2004), where APS 2003 sample design is described in more detail.

Table 3. Sampling frame of the APS 2003-2004

Stratum	Primary	Secondary	Tertiary	Sampling fraction	Households in panel sample	
					No.	%
1	Coastal	City	Durres	5/8	50	2.8
2			Fier	4/8	40	2.2
3			Vlore	4/8	40	2.2
4		Other urban	4/8	120	6.7	
5		Rural	4/8	260	14.6	
6	Central	City	Shkoder	5/8	50	2.8
7			Elbasan	5/8	50	2.8
8			Berat	4/8	40	2.2
9			Korce	4/8	40	2.2
10		Other urban	6/8	120	6.7	
11		Rural	7/8	455	25.5	
12	Mountain	Other urban	1/8	50	2.8	
13		Rural	2/8	150	8.4	
14	Tirana	Blue: low poverty	5/8	85	4.8	
15		Red: Medium poverty	4/8	124	7.0	
16		Green: High poverty	4/8	108	6.1	
Total					1,782	

Compared to the LSMS design, statistical precision has improved. Under equal stratum population variances hypothesis, sample design effects are expected to be around 1.02, compared to the 1.28 of the LSMS sample. Moreover, further precision is obtained by keeping all 450 EAs of LSMS in the panel sample, thus reducing the eventual bias due to clustering because of new design.

Finally, the panel survey has a number of peculiar features that should be considered when using the data. The sample is designed to focus on individuals, who have been also traced when moving from the original household to a new one. This possibility represents the only way a household can enter the panel sample if it has not been already interviewed in the wave 1 (or in wave 2 for the APS 2004). If an original survey member (OSM) moves to a new household, his/her old and new household -and their members- are both included in the panel sample. Though a moved OSM will be present in the roster of both sampled households, he/she is a valid member only in the new one. In the old household he/she is taken into account as “moved away”, hence not a valid member. This might generate some confusion which will be explained in section VI.

Three modalities exist to classify an individual in the third wave. First, when he/she is an OSM, that is a respondent interviewed both in wave 1 and 2. Second, when he is a rejoiner from 2002, that is an OSM not interviewed in 2003 (i.e. because temporarily absent) who returns in 2004. Third, when he/she is a new member, whenever he/she is a newborn of an original household, a member joined by an OSM or a person who co-resides with an original survey household. So the APS is an indefinite life panel study, without replacement by drawing new sample units.

From wave 2, only individuals aged 15 years and over are considered valid members, hence eligible for the interview. Individuals moved out of Albania are not accounted as valid for this survey year, though they are still eligible for future waves.

IV. Organization Procedures

Fieldwork

Implementation of the APS 2004 has been a cooperation among INSTAT, World Bank, and ISER (Institute for Social and Economic Research) of the University of Essex.

Panel methodology has required acquisition of preliminary information, consisting of identification code (ID) of households, as well as names and ID of individuals to be interviewed. Information was pre-printed in the control form of the questionnaire (*hroster*) which had to be completed from the interviewer through household information.

1,782 questionnaires with fed-forwarded information were issued and some left blanks for eventual split-off households. As the panel size of 2004 is the same of 2003's, 14 teams composed by 46 enumerators were involved in the fieldwork, as in 2003. The majority of enumerators had also participated in the 2002 and 2003 surveys.

Complexity of the panel survey method and of the questionnaire (see below) required a thorough manual questionnaires checking during fieldwork. This way, it was possible to re-interview the *HU* in case of errors and non-responses. Activity and profession coding took place at INSTAT, with the supervision of Word Bank.

Training and implementation

Staff training for fieldwork lasted a week, of which one day was spent on practice training with pedometer for the distance experiment, assisted by a World Bank consultant. Measuring distance has dealt with the use of pedometer whenever an individual walked to school or work. Operators had to teach the user how to perform the measurement and fill in the questionnaire. Results were reported in a separate form, and approximately 250 figures were reported overall.

Fieldwork followed three general rules: *a)* split-off households were interviewed by the interviewers' team which had collected data from the original household (base family) if moved within same area; *b)* information on the new household location was taken from the base family. Then, the questionnaire with the place information was send back to INSTAT which forwarded it to the team covering the district where the split-off individual had moved to carry out the interview⁵; *c)* for households moved "out of scope" -so, impossible to be reached- the file was temporarily closed and an explanation note was added.

The fieldwork began on May 17, 2004. The interviewer workload was divided in two steps: 1) tracing and identifying sampled households and 2) carrying out the interviews. As previously mentioned, operator had to collect additional information for split-off and displaced households. Distances measurement by the pedometer was a new procedure, which increases the

⁵ This rule is applied also when an entire household moves.

interviewers' workload. The average workload per operator was calculated in two questionnaires a day.

Fieldwork was completed within the expected deadline in early July 2004. About 1,812 questionnaires were completed.

V. Data Entry and Cleaning⁶

A first data cleaning took place in Albania and implemented by INSTAT in collaboration with ISER and Government of Albania consultants. The cleaning process has involved following activities:

1. defining data checking routines and writing the syntax code of the cleaning programs;
2. generating lists of outliers and inconsistencies for each module to be checked against paper questionnaires;

During the first few days, data cleaning operators have been working on the *Export Procedure* of the Data Entry Program to check if data export succeeded and to finalize the English version of the dictionaries and error messages. Some changes were made to the *Export Procedure* due to a problem on the "Agriculturea2" file conversion and to the dictionary structure to check over correct labelling of exported data. The dictionary used during data entry was in Albanian language. So, an accurate comparison of the Albanian and English versions was done to ensure consistency (except for the labelling) between the two. This work was performed by using a free-ware software called "Winmerge", which underlines all the differences between two text files.

Phase two has been devoted to update the *Batch Edit (BE)* procedure of the Data Entry Program, where a little correction was required to avoid some error messages incorrectly issued by the *BE*. Afterwards, the routine was applied to check all the errors, and a program in Access was run to associate *PSU* and Data-entry operator code to each questionnaire selected by the *BE*. Once obtained the procedure report, a pool of four people from INSTAT started to check all the reported errors and make the necessary adjustments. A copy of all original data in CSPRO software was made. During this work, some atypical circumstances were reported: sometimes errors or warning detected possible data-entry or interviewer problems. For these cases, no correction was made and the occurrence was highlighted in the report. Most of the problems reported by the *BE* were referred to the "distance that seemed to be inconsistent with the walking time" and "number of hours worked per week" higher than 70. All these situations were checked and corrected if differences between recorded values and paper values were found. At the end of these operations 10 problems (4%) were corrected out of 278 reported errors or warnings. Other 8 strange cases (3%) were underlined on the report.

The following steps were followed to check for questionnaire consistency. An SPSS program was written to check individual information present in the roster (Module 1) and coherence in the dwelling section (Module 2). No questionnaire was found to violate consistency in Module 1 and only one violating one of the dwelling rules.

⁶ The content of this section is based on a mission report by Guido Pieraccini who, as a consultant to the Government of Albania, provided technical assistance to INSTAT on the cleaning and checking procedure of third wave data.

Afterwards, a check of each qualitative variable value was carried out, by tabulating frequencies by variable and verifying if values were in their expected range. Any problem of this phase was reported, except for some “99” (meaning “not remember”) values assigned to some date variables such as months or years.

Different criteria were used to check for outliers in quantitative variables. A variation of the classic interval around the mean was used for these cases. Since some very asymmetric distributions were found, a skewed interval around the median was adopted. This interval involved *MAD* (Median Absolute Deviation) and an asymmetric measure based on quartiles. For each module of the questionnaire a SPSS program was run to check the questionnaire consistency related to quantitative variables and to identify outliers. As in the case of Data-Entry checks, all these cases were verified and adjusted if a difference between recorded value and paper value was found. In suspected cases no change was introduced.

The third step was to check split-off households. The consistency dealt with verifying that all individuals not coded as present household members were considered as valid components only if they join a split-off household; otherwise they were considered “refused interview” or “impossible to be contacted”. Only two cases of individuals without split-off household were found and the related corrections made.

Besides the preliminary check implemented right after the survey completion, additional controls were performed at a later stage. No major data entry errors were found, while some inconsistencies were highlighted and fixed.

Furthermore, original files were reshaped to obtain individual or household-level dataset, as some initial data files were organized in a different way (e.g. by plot in the case of *agricultureal* or by income source in the *socialassistance*). Value labels for occupation and activity, whose coding was provided by INSTAT, were assigned to code-variables (shown in annex 4). A number of variables were created to better detect and trace households, and to enhance comparability across waves -e.g. *cfinloc*, which allows selecting households at their final destination, see below-. A careful check of each variable value was fulfilled, by tabulating frequencies and verifying if all values and codes were consistent. After the discrepancies were fixed, the general dissemination files were created.

Finally, an analysis of the differences in the sections’ content between the two waves of APS was performed and presented in annex 2. This may be useful for analysts aiming at using the longitudinal panel of the three waves, if used in conjunction with the *Variable_reconciliation LSMS_PANEL_final* document of wave 2. Codebooks for the individual and household-level files were created and are part of the documentation.

VI. Notes on Dataset Structure and Use

It is a general rule that a dataset is best understood if used alongside the questionnaire. Short labels describing the content of a variable whose name is not exhaustive are attached. Only the questionnaire reports question wording entirely. Moreover, the questionnaire includes most of the codes employed and clarifies how filter questions and skip patterns are used in the survey. Codes not included in the questionnaires are available in Annex 4.

The dataset is provided in STATA format and is organized as follows. The prefix of each variable name before the underscore sign (“_”) refers to the module, the suffix (so, after the underscore) follows question numbering within each module. As an example, variable “m4b_q16a” refers to **module 4b, question 16a**. Variables’ name in waves 1 and 3 starts with **m**, while **b** prefix has been used for the second wave. In the dissemination files of wave 1 (*w1_hh_all*, *w1_hh_basic*, *w1_hh_farm*, *w1_ind_all*) variables have been renamed by **a** prefix (in place of **m**) to highlight comparability across waves. Nevertheless, attention should be paid to the fact that variables having the same prefix are not necessarily referred to the same question across waves because of questionnaire changes. For instance, **b1_q17** of wave 2 on “relation to the head” corresponds to **m1_q16** in wave 3. An overview on questionnaires content and variations between wave 2 and 3 can be found in Annex 2. Details on changes between wave 1 and wave 2 are shown in the *Variable_reconciliation LSMS_PANEL_final* of the APS 2003 available documentation.

As in the second wave, also in the third individual questionnaire includes some routing depending on whether or not the person is an OSM interviewed in the LSMS or a new member who joins the household after wave 1. This distinction is required to avoid same questions be asked an individual twice in a two-period time, e.g. information on date and place of birth only needs to be collected once. Consistently with this idea, as information on professional qualifications is collected in the LSMS 2002, OSM in wave 1 and 2 are asked only to fill in the relevant section only if they have gained any new qualification in the last year. Conversely, new members are requested to report all qualifications. Data users should be aware of this routing through the questionnaire and in some cases they may need to get information from an earlier wave. Moreover, for the APS 2004 two distinct files on education have been created: “*educationorig*” contains data on education level attained by original respondents whose situation is changed during the last year (e.g. because they are enrolled in a school program); “*educationnew*” refers to new entrants and includes the wider set of data on education asked the OSM in the LSMS. Only few observations do not obey the general rule above⁷.

Data from the cover-page section of the questionnaire (codes of interviewers, supervisors and DEO’s, interview dates, and so on), and additional variables created automatically by the *DE* program are included in the file “*metadata*”. A separate file named “*filters*” contains information on filtering-respondent questions for some questionnaire sections. A file named “*panelmembers*” provides household and individual identification codes to link information by file within and across waves. In what follows, details on general dissemination files are highlighted.

General dissemination files

W3_roster_all

It collects information from the household *control form* (*h roster*) at individual level. Attention should be paid in using the *w3_roster_all* (and *w3_ind_all*) file, as it contains 168 duplicated records of individuals. Out of 168, 167 have moved away and 1 is “not present”. The reason for this apparent anomaly is that migrants have been followed, whenever possible, in their new

⁷ 106 individuals not interviewed in wave 1 nor in 2 were classified as OSM (they were assigned a *pid* starting with 1 in wave 1, meaning “interviewed in the first wave”). In wave 3 they have been considered as “existing members not interview (in 2003)”, with the target to collect information on their qualifications. Out of 40 of them, 31 are labelled as OSM, but only 4 were enrolled in 2004 and filled “*educationorig*”; 1 was considered OSM and was also interviewed. 10 respondents have been considered “new members” and have filled in module “*educationnew*”. Overall, information has been recovered for 15 respondents out of 106.

family, and they appear twice in the dataset, once in their old (classified as “not member”, because moved) and again in their new household (considered as valid members, instead)⁸. The file contains a sub-set of variables present in *w3_ind_all* and includes all enumerated household members (see below).

W3_ind_all

It is an individual-level file for all survey members including children under 15 years old, which collect information from sections: *control form (hroster)*, *cover page (metadata)*, *panelmembers*, *educationorig*, *educationnew*, *health*, *fertility*, *labor* and *migration*. The file has been organized to have an individual record for each row; hence sometimes a reshaping of the original individual files was needed⁹. Wherever possible, variables have retained same name and label of wave 1 and 2. A detailed description of them is available in the documentation file “Codebook_w3_ind_all”.

Wave 1 N=7,475 longitudinal members including children aged under 15.

Wave 2 N= 7,438 panel members including children under 15 years, of which 7,160 OSM and 278 new members. 5,433 are valid members aged 15 or over and have compiled individual sections of questionnaire; 2,005 are children under 15 years old.

Wave 3 N=7,476 longitudinal individuals including children under 15 years, of which 7,212 already sampled in wave 1 or 2, and 264 new members. 5,499 are valid household members aged 15 or over and have provided individual information; 1,977 are under 15 years.

Note that in wave 2 and 3 the individual questionnaire did not collect data on children under 15 years. The questionnaire was filled in by all present household members aged 15 or over.

W3_hh_all

It collects information at household level, summing up data drawn from section *cover page (metadata)*, *dwelling*, *numdurables*, *agriculturea1*, *agriculturea2*, *agricultureb1*, *agricultureb2*, *filters*, *remittancesa*, *remittancesb*, *socialassistance*, *subjectivea*, *subjectiveb*, *household interview outcome* where information has been asked the household head or the most knowledgeable person. As in the individual level case, sometimes a reshaping has been applied to the original files to insure that each record has been assigned to a single household¹⁰. Whenever possible, variables are assigned original files names (shown below). Their content is summarized in the documentation file “Codebook_w3_hh_all”.

Wave 1 dataset (*w1_hh_all*) includes interviewed and non-interviewed households. For longitudinal analysis, interviewed panel households only should be selected.

Wave 1 N=1,741 panel households (891 urban, 850 rural)

⁸ They have an equal *m1_q01* personal identification code (*pid*), but a different *m0_q00* household identification code (and, hence, *chid*). Depending on the users’ objective, these duplicated records can be dropped so that national representativeness is guaranteed. A solution to leave them aside in the APS 2004 is to select individuals at their final location residence, through the variable *cfinloc*. The APS 2003 shares the same feature in *w2_ind_all* and *w2_roster_all* files: in that case the relevant filter variable is *bfinloc*.

⁹ It occurs because for some sections data were collected by item instead of by individual.

¹⁰ See previous footnote.

Wave 2 N=1,780 interviewed households. 900 of them are urban and 880 are rural families. The majority of the non-interviewed households were due to split-off moves out of the country (N=348). A further 23 households had moved out of scope within Albania, e.g. had moved into an institution (hospital, prison) or were non-contacts or refusals. Only 4 households had moved and could not be traced. 83 households had moved and were traced to their new address.

Wave 3 N=1,797 households. It was possible to classify 1,767 of them through the Enumeration Area (*EA*) they had in the 2002 LSMS, while 30 missing domain codes are due to the lack of information on urban/rural and *EA* residence¹¹.

W3_hh_basic

It contains data referred to sections: *cover page (metadata), household interview outcome, dwelling, filters, social assistance, numdurables, subjectivea, subjectiveb*. It is a sub-set of the *w3_hh_all*.

W3_hh_farm

It collects information drawn from the following modules: *cover page (metadata), household interview outcome, agriculturea1, agriculturea2, agricultureb1, agricultureb2*. As *w3_hh_basic*, it is a sub-set of *w3_hh_all*.

Construction of identification codes

Individual

The PID (or *pid*) is defined as the Panel Identification Code, constant across waves, coded as:

- the first digit expresses the wave. It is “1” for original members of 2002 who were re-interviewed in 2003 (OSM); “2” for new households members (or split-off households) in 2003; “3” for new household members (or split-off households) in 2004;
- the following four digits (from second to five) represent the ranking number of interviewed household in total sample within wave;
- the sixth digit expresses the number of the household (e.g. 1,2,3) within the Primary Sampling Unit (*PSU*);
- the seventh and eight digits are the identification number of individual in the household;
- the ninth digit is called the “*check digit*”, and it helps interviewers to identify the individual in data-entry procedure.

Household

The household identifier code (*chid*) is 7 digits long and its composition is:

- the first digit represents the wave (1,2,3);
- the second to five digits express the ranking number of interviewed household in total sample within wave;
- the sixth digit expresses the number of the household (e.g. 1,2,3) within the Primary Sampling Unit (*PSU*);
- the seventh digit is the *check digit* that helps to identify the household.

¹¹ According to panel construction methodology, the sampling design does not select a predetermined number of households to be sampled by *PSU* (as in the LSMS 2002), rather original households are traced wherever they move within Albania: some are living in the same *PSU* as in 2003, other have moved to other *PSUs*.

Linking files within wave 1

Data files from the household questionnaires can be linked by using the identifying variable for each household (*hhid*, labeled ‘household identifier’). This is a three to five digit code, where the last two digits always represent the household number (from 01 to 14), and the first digits represent the *PSU* number (from 1 to 450). This variable is computed by linking the *PSU* (*psu*) identifier, and the sampled household progressive number within the *PSU* (*hh*, labeled “household ID”). For instance, household 4 in *PSU* 120 will be labeled as *hhid*=12004 (i.e. by combining *PSU* 120 with *hh* number 04). Individual level files also include a variable indicating the person whom information is referred to. The name of this variable varies across files, but it is usually associated with the label “ID Code”.

Linking files within waves 2 and 3

Household-level observations can be matched by the household identifiers *bhid* and *chid*, for wave 2 and 3 respectively. Individual-level observations can be matched through *b1_q01* and *m1_q01*¹². The difference between *bpno* and *bpan_num* (and, hence, between *cpno* and *cpan_num*) is that the former is created for all individuals in the roster, even if they are not valid members, while the latter has been created for valid household members who have compiled the questionnaire.

To merge individual-level file *w2_ind_all* and *w3_ind_all* with household-level files, e.g. *w2_hh_all* and *w3_hh_all*, the user is required to use *bhid* within wave 2 and *chid* within wave 3.

Link observations across waves

As already mentioned, the aim of the Albanian Panel Survey is to collect information on the same analysis units across time. To this goal, a 9-digit personal identifier *pid* has been created, which is constant across time for each individual. So, the *pid* can be used to merge individual-level observations across waves.

Instead, following households across time is not as simple, because household identifiers (*hhid*, *bhid* and *chid*) are not constant over time. The variable *hhid* has been added to the 2003 wave and can be used to merge household information between wave 1 and 2. The variable *m0_w2_hh*, equal to the household identifier (*bhid*) in wave 2, has been included in the *metadata* file of wave 3 and it can be used to match information across the last two waves. Hence, through the above variables it is possible to follow a household in the entire panel.

¹² It is worth noting that *m1_q01* is equal to the personal identification code (*pid*) across wave (see below).

Annex 1 How to Obtain Copies of the Data and Documentation

Data from the Albania 2004 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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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 and questionnaire changes compared to 2003

0) Metadata (Cover front page)

Details of new address (in case of moves), calls, interviewer and supervisor, interview outcome.

Table a. Metadata. 2004-2003 variables

Variable 2004	Description	Variable 2003	Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00	m0_q13	street	b0_q13
m0_q00a	Check digit	b0_q00a	m0_q14	municipality or commune	b0_q14
m0_q01	lsms psu number	b0_q01	m0_q15	city or village	b0_q15
m0_q02	lsms hh number	b0_q02	m0_distr	district name	
m0_q04d	date of enumeration (day)	b0_q04d	m0_q16	district code	
m0_q04m	date of enumeration (month)	b0_q04m	m0_q17	phone 1	b0_q16
m0_q04y	date of enumeration (year)	b0_q04y	m0_q18	phone 2	b0_q17
m0_q05	enumerator code	b0_q05	m0_date	data entry date	b0_date
m0_q06	supervisor code	b0_q06	m0_time	time de started	b0_time
m0_q07	data entry operator code	b0_q07	m0_saved	case saved or normally finished	b0_saved
m0_q08	address status	b0_q08	m0_ver	version number	
m0_q09	building	b0_q09	m0_q19	time finished de	b0_q19
m0_q10	entrance	b0_q10	m0_orhh	original household	
m0_q11	floor	b0_q11	m0_w2_hh	wave 2 hh id	
m0_q12	apartment number	b0_q12			

Differences with 2003

Mo_distr, m0_q16, m0_ver, m0_orhh and m0_w2_hh have been introduced in 2004.

1) HHroster (Original and split-off households)

This module included the general characteristics of all household members from Wave 2 as a starting point for Wave 3. Prior to feeding forward the questionnaire, each sample member was assigned a unique personal identifier (*PID*), reported as variable *m1_q01*. Each sample member carries his/her *PID* with him/her through the life of the survey, regardless of the household they are living in. The *PID* is the key individual-linking variable over time so it is crucial for correct identification of sample members. Household roster keeps track of members who moved out of the household and new members who joined the household, including newborns, or members who rejoined household from 2002.

Table b. HHroster. 2004-2003 variables

Variable 2004	Description	Variable 2003	Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00	m1_q21	mother's line no.	b1_q22
m0_q00a	check digit	b0_q00a	m1_q22	father living in hh	b1_q23
per_num	person number		m1_q23	father's line no.	b1_q24
m1_q01	pid	b1_q01	m1_q24	individual interview outcome	
m1_q02	first name	b1_q02	m1_q28	reason for joining household	b1_q28
m1_q03	last name	b1_q03	m1_q29m	date of joining household	b1_q29m
m1_q04	sex	b1_q04	m1_q29y	year of joining	b1_q29y
m1_q05d	date of birth (day)	b1_q05d	m1_q30	reason for leaving household	b1_q30
m1_q05m	month	b1_q05m	m1_q31a	country/district moved to	b1_q31a
m1_q05y	year	b1_q05y	m1_q31b	code	b1_q31b
m1_q06	age in years	b1_q06	m1_q32m	month left household	b1_q32m
m1_q07	resident of hh	b1_q07	m1_q32y	year left household	b1_q32y
m1_q08	months away in past 12 months	b1_q08	m1_q33	person abroad	
m1_q09	hh member present	b1_q09	m1_q34	entered legally	
m1_q10	new member	b1_q10a	m1_q35	months abroad	
m1_q11	sex check	b1_q11	m1_q36	main reason for migrating	
m1_q12	sex	b1_q12	m1_q37	found work	
m1_q13	birth date check	b1_q13	m1_q38a	occupation	
m1_q14d	birth date (day)	b1_q14d	m1_q38b	occupation	
m1_q14m	Month	b1_q14m	m1_q39a	main economic activity	
m1_q14y	Year	b1_q14y	m1_q39b	main economic activity	
m1_q15	valid hh member	b1_q16	m1_q40	working legally	
				person provided information	
m1_q16	relationship to hh	b1_q17	m1_q41	on where to go	
m1_q17	marital status	b1_q18	m1_q42	main source for money	
m1_q18	spouse living in hh	b1_q19	m1_q43	other help	
m1_q19	line no. of spouse	b1_q20	m1_q44	person helped	
m1_q20	mother living in hh	b1_q21			

Differences with 2003

M1_q07: the 2003 modality “Temporary absent” now distinguishes between “Temporary absent in Albania” and “Temporary absent abroad”.

M1_q10 now differentiates between “Interviewed 2003 (1)”, “Rejoined from 2002 (2)” and “New member (3)”.

M1_q15 has two new modalities in addition to those of 2003. It is now possible to answer “Moved away (4)” and “deceased (5)”.

Question m1_q24 and m1_q33-m1_q44 have been included in 2004. The control form is more detailed.

Question b1_q15 from 2003 is not included anymore.

2) Dwelling

Household questionnaire asked one person only.
Details of housing conditions, tenure, utilities and cost of utilities.

Table c. Dwelling. 2004-2003 Variables

Variable 2004	Description	Variable 2003	Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00	m2b_q07	boils water for drinking	b2b_q07
m0_q00a	check digit	b0_q00a	m2b_q08	distance from source of water	b2b_q08
m2a_q01	split-off household		m2b_q09	distance from closest public tap	b2b_q09
m2a_q02	moved in new dwelling since may 2003		m2b_q10	storage tank	b2b_q10
m2a_q03	made improvements in dwelling since may 2003		m2b_q11	main source of heating	b2b_q11
m2a_q04	dwelling type	b2a_q01	m2b_q12a	uses electricity for: lighting	b2b_q12a
m2a_q05	what is the major construction material of the external wall	b2a_q02	m2b_q12b	uses electricity for: heating-cooking	b2b_q12b
m2a_q06	building outside appearance	b2a_q03	m2b_q12c	uses electricity for: cooking	b2b_q12c
m2a_q07	condition of dwelling	b2a_q04	m2b_q12d	uses electricity for: water heating	b2b_q12d
m2a_q08a	time of construction	b2a_q05a	m2b_q12e	uses electricity for: other electrical appliances	b2b_q12e
m2a_q08b	year if after 1990	b2a_q05b	m2b_q12f	none, dwelling had no connection to public electric system	b2b_q12f
m2a_q09	time living in dwelling	b2a_q06	m2b_q13	has electricity meter	b2b_q13
m2a_q10	area of dwelling	b2a_q07	m2b_q14	families connected to meter	b2b_q14
m2a_q11	number of rooms	b2a_q08	m2b_q15	frequency of electricity cuts	b2b_q15
m2a_q12	rooms used for business	b2a_q09	m2b_q16	hours/day electricity has been cut in last month	b2b_q16
m2a_q13	type of toilet	b2a_q10	m2b_q17	comparison of electricity service	b2b_q25
m2a_q14a	dwelling has separate kitchen	b2a_q11a	m2b_q18	paid electricity during past 12 months	b2b_q19
m2a_q14b	dwelling has separate bath-shower	b2a_q11b	m2b_q19	amount of bill	b2b_q20
m2a_q14c	dwelling has balcony or terrace	b2a_q11c	m2b_q20	months covered in payment	b2b_q21
m2a_q14d	dwelling has pantry	b2a_q11d	m2b_q21	main alternative for lighting	b2b_q27
m2a_q14e	dwelling has attic	b2a_q11e	m2b_q22	hh uses gas	b2b_q28
m2a_q14f	dwelling has garage	b2a_q11f	m2b_q23a	hh uses gas for : lighting	b2b_q29a
m2a_q14g	dwelling has elevator	b2a_q11g	m2b_q23b	hh uses gas for : heating	b2b_q29b
m2a_q15a	problem: dwelling too small	b2a_q12a	m2b_q23c	hh uses gas for : cooking	b2b_q29c
m2a_q15b	problem: dwelling dark	b2a_q12b	m2b_q23d	hh uses gas for : other appliances	b2b_q29d
m2a_q15c	problem: inadequate heating	b2a_q12c	m2b_q24	amount paid in average for gas	b2b_q30
m2a_q15d	problem: leaking roof	b2a_q12d	m2b_q25a	hh used: firewood	b2b_q31a
m2a_q15e	problem: damp walls, floors or basement	b2a_q12e	m2b_q25b	hh used: coal	b2b_q31b
m2a_q15f	problem: windows/doors in bad condition	b2a_q12f	m2b_q25c	hh used: oil/kerosene	b2b_q31c
m2a_q15g	problem: pollution from industry or traffic	b2a_q12g	m2b_q25d	hh used: diesel fuel	b2b_q31d

m2a_q16a	distance from nearest primary school	b2a_q13a	m2b_q25e	hh used: other	b2b_q31e
m2a_q16b	distance from nearest ambulatory doctor	b2a_q13b	m2b_q26	hh has phone in dwelling	b2b_q32
m2a_q16c	distance from nearest bus stop	b2a_q13c	m2b_q27	hh paid for telephone	b2b_q33
m2a_q17	ownership of dwelling	b2a_q14	m2b_q28	amount of last payment	b2b_q34
m2a_q18	method of acquisition	b2a_q15	m2b_q29	months covered in payment	b2b_q35
m2a_q19	legal document of ownership	b2a_q16	m2b_q30	hh owns a pc	
m2b_q01	main source of water	b2b_q01	m2b_q31	internet connection	
m2b_q02	continuous water	b2b_q02	m2b_q32	company of internet service	
m2b_q03	hours per day dwelling received water	b2b_q03	m2b_q33	satisfied with quality of service	
m2b_q04	reason for not having water from public system	b2b_q04	m2b_q34	paid internet service	
m2b_q05	opinion of quality of water	b2b_q05	m2b_q35	amount paid for internet last month	
m2b_q06	water source used for drinking	b2b_q06			

Differences with 2003

M2a_q01-m2a_q03 have been introduced in 2004.

B2a_q17-b2a_q22 on “repair to the dwelling” have been excluded in 2004.

B2b_q17, b2b_q18, b2b_q22-b2b_q24 and b2b_q26 have been excluded in 2004.

The module on phone inside the dwelling (b2b_q36-b2b_q42) has been replaced by the one on internet in dwelling (m2b_q30-m2b_q35).

3) Numdurables

Durable goods owned by the household.

Table d. Numdurables. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
m2c_q1a	item description	b2c_q1a
m2c_q1b	item code	b2c_q1b
m2c_q1c	number of items	b2c_q1c
m2c_q02	bought any items in last 12 months	
m2c_q03	number bought in last 12 months	

Differences with 2003

M2c_q02 and m2c_q03 have been introduced in 2004

4) Educationorig

Details of education and qualifications in the past year for original sample members.

Table e. Educationorig. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
pan_num	panel number	bpan_num
m3a_q00	respondent id	b3a_q00
m3a_q01	original survey member	b3a_q01
m3a_q02	currently enrolled in school	b3a_q02
m3a_q03	enrolled in school last year	b3a_q03
m3a_q04	reason for not enrolling	b3a_q04
m3a_q05a	current level	b3a_q05a
m3a_q05b	current grade	b3a_q05b
m3a_q06	public/private school	b3a_q06
m3a_q07	currently attending school	b3a_q07
m3a_q08	reason for not attending	b3a_q08
m3a_q09	means of transportation	
m3a_q10	distance from dwelling	
m3a_q11	time to walk to school	
m3a_q12a	highest level completed	b3a_q09a
m3a_q12b	highest grade completed	b3a_q09b
m3a_q13	highest diploma attained	b3a_q10

Differences with 2003

M3a_q09 – m3a_q12 have been introduced in 2004

5) Educationnew

Details of education and qualifications for new sample members.

Table f. Educationnew. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
pan_num	panel number	bpan_num
m3b_q00	respondent id.	b3b_q00
m3b_q01	able to read newspaper	b3b_q01
m3b_q02	able to write	b3b_q02
m3b_q03	ever attended school	b3b_q03
m3b_q04	highest grade completed	b3b_q04
m3b_q05	highest level completed	b3b_q05
m3b_q06	highest diploma attained	b3b_q06
m3b_q07	years of preschool	b3b_q07
m3b_q08	enrolled in school for this academic year	b3b_q08
m3b_q09	currently attending school	b3b_q09
m3b_q10	reason for not attending school	b3b_q10
m3b_q11	reason for not enrolling	b3b_q11
m3b_q12	intention of returning	b3b_q12
m3b_q13	grade currently enrolled	b3b_q13
m3b_q14	level currently enrolled	b3b_q14
m3b_q15	public/private school	b3b_q15

Differences with 2003

No difference.

5) Communication

Details of internet and mobile phone use.

Table g. Communication. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
pan_num	panel number	bpan_num
m4_q01	ever used internet	b4_q01
m4_q02	has e-mail address	b4_q02
m4_q03	place of using internet	b4_q03
m4_q04	main purpose for using internet	
m4_q05	time using internet	
m4_q06	used internet in past month	
m4_q07	amount spent in using internet	
m4_q09	has mobile phone	b4_q06
m4_q10	time of acquisition	b4_q07
m4_q11	phone brand	b4_q08
m4_q12	has pre-paid card	b4_q09
m4_q13	total cost for last month	b4_q10
m4_q14	person paying	b4_q11

Differences with 2003

The module on internet use has been enhanced through the addition of questions m4_q04-m4_q07.

Wording of questions m4_q08, m4_q09 and m4_q14 has changed.

6) Health

Details of health conditions, use of health services, smoking, hospital stays and subjective health status.

Table h. Health. 2004-2003 variables

Variable 2004	Description	Variable 2003	Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00	m5_q18	do you smoke	
m0_q00a	check digit	b0_q00a	m5_q19	average cigarettes smoked in 1 day	
pan_num	panel number	bpan_num	m5_q20	visited ambulatory to obtain outpatient health care	b5_q21
m5_q00	respondent id	b5_q00	m5_q21	times in past 4 weeks	b5_q22
m5_q01	suffer from a chronic illness	b5_q01	m5_q22	visited private doctor	b5_q23
m5_q02a	months suffering chronic illness	b5_q02a	m5_q23	times in past 4 weeks	b5_q24
m5_q02b	years suffering chronic illness	b5_q02b	m5_q24	visited nurses/midwife	b5_q25
m5_q03	diagnosed by professional	b5_q03	m5_q25	times in past 4 weeks	b5_q26
m5_q04	illness affected	b5_q04	m5_q26	visited a hospital to obtain outpatient health care	b5_q27
m5_q05	currently taking medication for illness	b5_q05	m5_q27	times in past 4 weeks	b5_q28
m5_q06	days unable to carry out usual activities in last month	b5_q06	m5_q28	satisfied with care received	
m5_q07	sought medical advice in the past 4 weeks		m5_q29	reason for not being satisfied with care	
m5_q08a	place sought advice		m5_q30	stayed in hospital or maternity in past 12 months	b5_q29
m5_q08b	place sought advice (2nd) main reason did not seek advice		m5_q31	times admitted in past 12 months	b5_q30
m5_q09	sudden illnesses in last 4 weeks		m5_q32	days spent in hospital over last 12 months	b5_q31
m5_q10	type of illness	b5_q07	m5_q33	type of hospital	b5_q32
m5_q11	days in past month unable to carry out usual activities	b5_q08	m5_q34	satisfied with care received	
m5_q12	sought medical advice for injury in past 4 weeks	b5_q09	m5_q35	reason for not being satisfied with care	
m5_q13	place sought advice (most recent)		m5_q36	location of hospital	b5_q33
m5_q14a	place sought advice (2nd) main reason for not seeking medical advice		m5_q37	visited dentist in past 12 months	b5_q34
m5_q14b	rating of health		m5_q38	times visited dentist in past 12 months	b5_q35
m5_q15	comparison of health	b5_q10	m5_q39	has health license	
m5_q16		b5_q11	m5_q40	license status	
m5_q17					

Differences with 2003

M5_q07-m5_q09, m5_q13-m5_q15, m5_q28, m5_q29, m5_q34, m5_q35, m5_q39 and m5_q4 have been introduced in 2004.

The module on smoking is reduced. In 2004, it consists of 2 variables (m5_q18 and m5_q19) whose content is different from its counterpart in 2003. In previous wave module on smoking behaviour consisted of questions b5_q12-b5_q20.

7) Fertility

Information on pregnancy, births, and prenatal medical consultations.

Table i. Fertility. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	
m0_q00a	check digit	
m5b_q02	panel id	
m5b_q03	currently pregnant	
m5b_q04	given birth in last 24 months	
m5b_q05	months pregnant	
m5b_q06a	assistant of birth	
m5b_q06b	2nd assistant	
m5b_q07	place of birth	
m5b_q08	prenatal consultations	
m5b_q09a	times visited public doctor	
m5b_q09b	times visited nurse/midwife	
m5b_q09c	times visited private doctor	
m5b_q09d	times visited private nurse	
m5b_q10	period 1st prenatal	
m5b_q11	reason no prenatal	

Differences with 2003

All modules have been introduced in 2004.

8) Labour

The questionnaire module collecting information on labour is organized in 4 parts. Each of them is separately presented.

Labora - Labour force participation and job search

Table I. Labora. 2004-2003 Variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
pan_num	panel number	bpan_num
m6a_q01	respondent id	b6a_q01
m6a_q02	worked for non hh member in past 7 days	b6a_q02
m6a_q03	worked for hh member in past 7 days	b6a_q03
m6a_q04	worked on own account in past 7 days	b6a_q04
m6a_q05	answer check	b6a_q05
m6a_q06	occasional job in past 7 days	b6a_q06
m6a_q07	has permanent job but didn't work in past 7 days	b6a_q07
m6a_q08	main reason for not working in past 7 days	b6a_q08
m6a_q09	tried to find a job in past 4 weeks	b6a_q09
m6a_q10	main reason for not looking for a job in past 4 weeks	b6a_q10
m6a_q11	started less than 12 months ago	b6a_q11
m6a_q12	efforts put into finding job	b6a_q12

m6a_q13	time looking for a job	b6a_q13
m6a_q14	ready to work in the next 2 weeks	b6a_q14
m6a_q15	currently registered in labor office	b6a_q15
m6a_q16	without a job for less than 12 months	b6a_q16

Differences with 2003

No difference.

Laborb – Overview of past 7 days

Table m. Laborb. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
m6b_q00	activity code	b6b_q00
pan_num	panel id	b6b_q0a
m6b_q01a	occupation description	b6b_q01a
m6b_q01b	code	b6b_q01b
m6b_q02	days worked in past 7 days	b6b_q02
m6b_q03	hours worked in past 7 days	b6b_q03
m6b_q04	weeks in past 12 months	b6b_q04
m6b_q05	performed other work in the last 7 days	b6b_q05
m6b_q06	answer check	b6b_q06

Differences with 2003

No difference.

Laborc – Main and secondary job details

Table n. Laborc. 2004-2003 variables

Variable 2004	Description	Variable 2003	Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00	m6c_q18	value of payments	b6c_q18
m0_q00a	check digit	b0_q00a	m6c_q19a	month started job	b6c_q19a
pan_num	panel id.	b6c_q00	m6c_q19b	year started job	b6c_q19b
m6c_q01a	occupation	b6c_q01a	m6c_q20	means of reaching workplace	
m6c_q01b	code	b6c_q01b	m6c_q21	distance from dwelling	
m6c_q02a	description of activity	b6c_q02a	m6c_q22	time to walk	
m6c_q02b	code	b6c_q02b	m6c_q23	question check	b6c_q20
m6c_q03	place of job	b6c_q03	m6c_q24a	occupation	b6c_q21a
m6c_q04	place of work	b6c_q04	m6c_q24b	code	b6c_q21b
m6c_q05	hours per week	b6c_q05	m6c_q25a	written description of activity	b6c_q22a
m6c_q06	reason for working less than 40 hours	b6c_q06	m6c_q25b	code	b6c_q22b
m6c_q07	position at work	b6c_q07	m6c_q26	type of job	b6c_q23
m6c_q08	employer	b6c_q08	m6c_q27	status at work	b6c_q24
m6c_q09	entitled to benefits	b6c_q09	m6c_q28	employer	b6c_q25
m6c_q10	last payment	b6c_q10	m6c_q29	last net payment	b6c_q26
m6c_q11	time unit	b6c_q11	m6c_q30	time unit	b6c_q27

m6c_q12	usual payment	b6c_q12	m6c_q31	usual net payment	b6c_q28
m6c_q13	time unit	b6c_q13	m6c_q32	time unit	b6c_q29
m6c_q14	received bonuses	b6c_q14	m6c_q33	other forms of payment	b6c_q30
m6c_q15	amount of last bonus	b6c_q15	m6c_q34	value of payment	b6c_q31
m6c_q16	months between bonuses	b6c_q16	m6c_q35	after 05-2003	b6c_q32
m6c_q17	other form of payment	b6c_q17			

Differences with 2003

M6c_q20-m6c_q22 have been introduced in 2004.

Labord - Employment grid

Table o. Labord. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
pan_num	panel id	b6d_q00
m6d_q0a	spell number	b6d_q0a
m6d_q01	status code	b6d_q01
m6d_q02a	date spell began (month)	b6d_q02a
m6d_q02b	date spell began (year)	b6d_q02b
m6d_q03a	occupation description	b6d_q03a
m6d_q03b	occupation code	b6d_q03b
m6d_q04a	activity of working unit	b6d_q04a
m6d_q04b	activity code	b6d_q04b
m6d_q05	occupation category	b6d_q05
m6d_q06	employer's category	b6d_q06

Differences with 2003

No difference.

9) Migrationa

Full migration history from 1990 to 1 June 2003 and from 1 June 2003 onwards.

Table p. Migrationa. 2004-2003 variables

Variable 2004	Description	Variable 2003	Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00	m7a_q27b	main activity (code)	
m0_q00a	check digit	b0_q00a	m7a_q28	working legally	b7a_q50
pan_num	panel number	bpan_num	m7a_q29	provider of information	b7a_q51
m7a_q01	original survey member	b7a_q01	m7a_q30	main source for money	b7a_q52
m7a_q02	born in this municipality	b7a_q02	m7a_q31	other help	b7a_q53
m7a_q03	continuously lived in commune	b7a_q03	m7a_q32	main source for help	b7a_q54
m7a_q04	moved since January 1990	b7a_q04	m7a_q33	number of times migrated internationally	b7a_q58
m7a_q05m	month moved	b7a_q05m	m7a_q34	total months abroad	b7a_q59
m7a_q05y	year moved	b7a_q05y	m7a_q35	moved or migrate since 2003	b7a_q08
m7a_q06	reason for moving	b7a_q06	m7a_q36	months remained away	b7a_q09
m7a_q07a	district lived before moving (name)	b7a_q07a	m7a_q37a	final destination district (name)	b7a_q10a
m7a_q07b	district lived before moving (code)	b7a_q07b	m7a_q37b	final destination code	b7a_q10b
m7a_q08	migrated from 1990-2003	b7a_q16	m7a_q38	main reason for migrating	b7a_q11
m7a_q09	year first migrated	b7a_q17	m7a_q39	months worked	b7a_q12
m7a_q10	months away during first migration	b7a_q18	m7a_q40a	occupation	b7a_q13a
m7a_q11a	destination district (name)	b7a_q19a	m7a_q40b	occupation code	
m7a_q11b	destination district (code)	b7a_q19b	m7a_q41	provided information	b7a_q14
m7a_q12	main reason for migrating	b7a_q20	m7a_q42	person who provided money for migrating	b7a_q15
m7a_q13	found work during first migration	b7a_q21	m7a_q43	migrated abroad since Jan. 2003	b7a_q27
m7a_q14a	work description	b7a_q22a	m7a_q44	attempt to migrate since June 2003	
m7a_q14b	code	b7a_q22b	m7a_q45	months away	b7a_q28
m7a_q15	provider of information during migration	b7a_q23	m7a_q46a	country of destination (name)	b7a_q29a
m7a_q16	received money for migrating	b7a_q24	m7a_q46b	country of destination (code)	b7a_q29b
m7a_q17	times migrated from 1990-2003	b7a_q25	m7a_q47	entered legally	m7a_q30
m7a_q18	total time away	b7a_q26	m7a_q48	main reason for migrating	m7a_q31
m7a_q19	migrated internationally	b7a_q42	m7a_q49	found work	m7a_q32
m7a_q20	what year	b7a_q43	m7a_q50a	occupation (written descry.)	b7a_q33a
m7a_q21	time away on 1st migration	b7a_q44	m7a_q50b	code	
m7a_q22a	country of final destination (name)	b7a_q45a	m7a_q51a	main economic activity	
m7a_q22b	country of final destination (code)	b7a_q45b	m7a_q51b	main economic activity	
m7a_q23	entered legally	b7a_q46	m7a_q52	working legally	b7a_q34
m7a_q24	main reason for migrating	b7a_q47	m7a_q53	provider of information on how to find work	b7a_q35
m7a_q25	found work	b7a_q48	m7a_q54	main provider of money for migrating	b7a_q36
m7a_q26a	occupation description	b7a_q49a	m7a_q55	other helper	b7a_q37
m7a_q26b	occupation code	b7a_q49b	m7a_q56	main helper	b7a_q38
m7a_q27a	main activity (written descr.)		m7a_q57	chance of migrating	b7a_q60

Differences with 2003

M7a_q27a/b, m7a_q44 and m7a_q51a/b have been introduced in 2004.

Questions b7a_q39-b7a_q41 and b7a_q55-b7a_q57 on “detention by the police”, “Physical abuses by the police” and “Forced return to Albania” have not been collected in 2004.

Part B of the module, on children living away, and part C, on extended family, have not been submitted to respondents in 2004.

10) Agriculture

The questionnaire module collecting information on agriculture is organized in 4 parts. We illustrate each of them separately.

Agriculturea1

Information on plots owned by the household.

Table q. Agriculturea1. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
m8a_q02l	line number	
m8a_q03	name of plot	b8a_q03
m8a_q04	area of plot	b8a_q04
m8a_q05	main use of plot	b8a_q05
m8a_q06	irrigated	b8a_q06
m8a_q07	use of plot	b8a_q07
m8a_q08	owned plot one year ago	b8a_q08
m8a_q09	method of acquisition	b8a_q09
m8a_q10	legal status	b8a_q10

Differences with 2003

Questions b8a_q11 and b8a_q12, on distance from plot, have not been included in 2004.

Agriculturea2

Information on plots rented by the household.

Table r. Agriculturea2. 2004-2003 Variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	
m0_q00a	check digit	
m8a_q14	plot number	
m8a_q11	number of plots	
m8a_q12	area of plots	
m8a_q13	difficulty for buying land	
m8a_q14a	first most serious problem for buying land	
m8a_q14b	second most serious problem for buying land	
m8a_q15	difficulty for selling land	
m8a_q16a	first most serious problem for selling	
m8a_q16b	second most serious problem for selling	

Differences with 2003

This part of the module has completely changed compared to 2003. Now it contains information on rented plot, while in 2003 it concerned plots no longer owned by the household.

Agricultureb1

Information on livestock.

Table s. Agricultureb1. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
m8b_q00a	livestock codes	b8b_q00a
m8b_q00	livestock	b8b_q00
m8b_q02	raised any	b8b_q02
m8b_q03	number currently own	b8b_q03
m8b_q04	number sold in past 12 months	b8b_q04
m8b_q05	number bought in past 12 months	b8b_q05
m8b_q06	number slaughtered in past 12 months for hh consumption	b8b_q06
m8b_q07	number died in past 12 months	b8b_q07
m8b_q08	number born in past 12 months	b8b_q08

Differences with 2003

No differences.

Agricultureb2

Information on access to land.

Table t. Agricultureb2. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
m8b_q09a	option code	b8b_q09a
m8b_q10a	option	b8b_q10a
m8b_q10	accessed land for	b8b_q10
m8b_q11	distance in minutes	b8b_q11
m8b_q12	owner	b8b_q12
m8b_q13	months used	b8b_q13
m8b_q14	paid to access	b8b_q14
m8b_q15	amount paid	b8b_q15

Differences with 2003

No differences.

11) Subjectivea

Information on household's current financial situation and expectations about the future's, self-assessed satisfaction with consumption.

Table u. Subjectivea. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
m10a_q00	respondent's panel id	b10a_q00
m10a_q01	satisfied with current financial situation	b10a_q01
m10a_q02	perception of change	b10a_q02
m10a_q03	perception of future situation	b10a_q03
m10a_q04	family food consumption perception	
m10a_q05	perception of level of food	b10a_q04
m10a_q06	step of poverty	b10a_q05
m10a_q7a	could your household afford to have friends around	b10a_q6a
m10a_q7b	household afford weeks holidays	b10a_q6b
m10a_q7c	household afford replace furniture	b10a_q6c
m10a_q7d	household afford new clothes	b10a_q6d
m10a_q7e	household afford to eat meat	b10a_q6e
m10a_q7f	household afford to keep house warm	b10a_q6f
m10a_q8a	problems paying for electricity	b10a_q7a
m10a_q8b	problems paying mortgage	b10a_q7b
m10a_q8c	problems paying rent	b10a_q7c
m10a_q8d	problems paying loans	b10a_q7d
m10a_q09	faced any shocks in last 12 months	b10a_q10

Differences with 2003

M10a_q04 has been introduced in 2004.

Questions b10a_q08, b10a_q09 on "list in a grocery shop" and b10a_q11, b10a_q12 on "situation of the neighbors" have not been included in 2004.

12) Subjectiveb

Membership of a group or network, characteristics of the group and interactions. Trust and solidarity. Collective action and cooperation. Social cohesion and inclusion. Employment and political action.

Table v. Subjectiveb. 2004-2003 variables

Variable 2004	Description	Variable 2003	Variable 2004	Description	Variable 2003
m0_q00	APS identification		m10b_q13	how many times?	
m0_q00a	check digit		m10b_q14	cooperate to solve community problem	
m10b_q01	number of groups belong		m10b_q15	number phone calls last month	
m10b_q02	most important group: most		m10b_q16	first source of information	
m10b_q_a	most important group: second		m10b_q_i	second source of information	
m10b_q_b	most important group: third		m10b_q_j	third source of information	
m10b_q03	members same religion		m10b_q17	differences divide your village	
m10b_q_c	members same gender		m10b_q18	differences cause problems	
m10b_q_d	members same ethnic		m10b_q19	which difference cause problem first	
m10b_q04	member same occupation		m10b_q_k	which difference cause problem second	
m10b_q_e	member same education		m10b_q20	problems led to violence	
m10b_q05	group interact outside community		m10b_q21	number times got together for drinks/food	
m10b_q06	how many close friends		m10b_q22	different ethnic	
m10b_q07	could you borrow money		m10b_q_l	different economic status	
m10b_q08	people can be trusted		m10b_q_m	these people were different social status	
m10b_q09	people willing to help		m10b_q_n	different religious group	
m10b_q_f	people take advantage of you		m10b_q23	how safe feel at home	
m10b_q10	trust local government		m10b_q24	how happy	
m10b_q_g	trust central government		m10b_q25	scale of rights	
m10b_q11	contribute time		m10b_q26	how often got together to petition authorities	
m10b_q_h	contribute money		m10b_q27	vote last election?	
m10b_q12	participate communal activity				

Differences with 2003

The module content is completely different from the 2003's.

13) Outcome

Operator opinion about the interview.

Table w. Outcome. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
m11_q01	interview conducted at household	b11_q01
m11_q02	interview outcome	b11_q02
m11_q3a	name	b11_q3a
m11_q3b	address	b11_q3b
m11_q3c	telephone	b11_q3c
m11_q3d	telephone 2	b11_q3d
m11_q04	plans to move in the next 12 months	b11_q04
m11_q05	reason for not being interviewed	b11_q05

Differences with 2003

No differences.

14) Social assistance

Receipt of social assistance payments, pensions and benefits.

Table x. Socialassistance. 2004-2003 variables

Variable 2004	Description	Variable 2003	Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00	m12_q11	2nd member's id code	b12_q11
m0_q00a	check digit	b0_q00a	m12_q12a	month started receiving assistance	b12_q12a
m12_q00	Source	b12_q00	m12_q12b	year started receiving assistance	b12_q12b
m12_q0a	source label	b12_q0a	m12_q13	amount of last payment	b12_q13
m12_q01	any hh member received payment from source	b12_q01	m12_q14	months payment is referred to	b12_q14
m12_q02	number of members benefited	b12_q02	m12_q15	currently owed any payments	b12_q15
m12_q03	id code of first member benefited	b12_q03	m12_q16	total amount owed	b12_q16
m12_q4a	month started receiving assistance	b12_q4a	m12_q17	time of arrears	b12_q17
m12_q4b	year started receiving assistance	b12_q4b	m12_q18	other member received income from source	b12_q18
m12_q05	amount of last payment	b12_q05	m12_q19	3rd member's id code	b12_q19
m12_q06	months payment is referred to	b12_q06	m12_q20a	month started receiving assistance	b12_q20a
m12_q07	currently owed any payment	b12_q07	m12_q20b	year started receiving assistance	b12_q20b
m12_q08	total amount owed	b12_q08	m12_q21	amount of last payment	b12_q21
m12_q09	time of arrears	b12_q09	m12_q22	months payment is referred to	b12_q22
m12_q10	other member of hh received income from source	b12_q10			

Differences with 2003

No differences.

15) Remittancesa

Name of the remitting person, relationship to the household head, amount remitted.

Table z. Remittancesa. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	
m0_q00a	check digit	
m13_q02	name of person	
m13_q03	relationship to the head of household	
m13_q04a	person remitting country	
m13_q04b	country code	
m13_q05	amount received	

Differences with 2003

This module has been introduced in 2004.

16) Remittancesb

Other income, rental income, revenue from sale of assets.

Table aa. Remittancesb. 2004-2003 variables

Variable 2004	Description	Variable 2003
m0_q00	APS identification	b0_q00
m0_q00a	check digit	b0_q00a
m13_q06	any members received any payment	b13_q06
m13_q07	amount received	b13_q07

Differences with 2003

This module has been introduced in 2004.

17) Panelmembers

Variables from questions asked in the household roster. Important are the respondent identifiers, useful to link information within and across waves.

Table ab. Panelmembers. 2004-2003 variables

Variable 2004	Description
m0_q00	APS identification
m0_q00a	check digit
m1_q25	person number
m1_q26	name
m1_q27	panel id

Differences with 2003

This module has been introduced in 2004.

Annex 3 Documents Available

The following documents form the complete documentation available on the 2004 Albania Panel Survey.

Questionnaires

Household Questionnaire

Training manuals

Enumerator and supervisor manual (Albanian only)

Other documents

Basic information document [this document] (English only)

Codebook for w3_hh_all (English only)

Codebook for w3_ind_all (English only)

Annex 4 Codes for occupation (ISCO-1988) and industry (NACE)

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 organizations, 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

1311 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

Industry codes (NACE¹³ Nomenclature)

Section A – Agriculture, Hunting and Forestry

- 01 Agriculture, hunting and related service activities
 - 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 Forestry, logging and related service activities
 - 02.01 Forestry and logging
 - 02.02 Forestry and logging related service activities

Section B – Fishing

- 05 Fishing, operation of fish hatcheries and fish farms; service activities incidental to fishing
 - 05.01 Fishing
 - 05.02 Operation of fish hatcheries and fish farms

Section C – Extractive Industries

- 10 Mining of coal and lignite; extraction of peat
 - 10.10 Mining and agglomeration of hard coal
 - 10.20 Mining and agglomeration of lignite
 - 10.30 Extraction and agglomeration of peat
- 11 Extraction of crude petroleum and natural gas; service activities incidental to oil and gas extraction, excluding surveying
 - 11.10 Extraction of crude petroleum and natural gas

- 11.20 Service activities incidental to oil and gas extraction excluding surveying

- 12 Mining of uranium and thorium ores
 - 12.0 Mining of uranium and thorium ores

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

- 14 Other mining and quarrying
 - 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 Manufacture of food products and beverages
 - 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

¹³ Variables *m1_q39b*, *m6c_q02b*, *m6c_q25b*, *m6d_q04b*, *m7a_q27b*, and *m7a_q51b* use only the first two digits of the NACE codes listed here, those before the period. For example, records with a value of 1 include NACE codes from 01.11 through 01.50.

- 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 Manufacture of tobacco products
- 16.0 Manufacture of tobacco products
- 17 Manufacture of textiles
- 17.11 Preparation and spinning of cotton-type fibers
- 17.12 Preparation and spinning of woollen-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 Woollen-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 Manufacture of wearing apparel; dressing and dyeing of fur
- 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 Tanning and dressing of leather; manufacture of luggage, handbags, saddlery, harness and footwear
- 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 Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
- 20.10 Sawmilling and planning 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 Manufacture of pulp, paper and paper products
- 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 Publishing, printing and reproduction of recorded media
- 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 Manufacture of coke, refined petroleum products and nuclear fuel
- 23.10 Manufacture of coke oven products
- 23.20 Manufacture of refined petroleum products
- 23.30 Processing of nuclear fuel
- 24 Manufacture of chemicals and chemical products

- 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 Manufacture of rubber and plastic products
- 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 Manufacture of other non-metallic mineral 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 Manufacture of basic metals
- 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 Manufacture of fabricated metal products, except machinery and equipment
- 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 Manufacture of machinery and equipment 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 Manufacture of office machinery and computers
- 30.01 Manufacture of office machinery.
- 30.02 Manufacture of computers and other information processing equipment
- 31 Manufacture of electrical machinery and apparatus nec.
- 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 Manufacture of radio, television and communication equipment and apparatus
- 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 Manufacture of medical, precision and optical instruments, watches and clocks
- 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 Manufacture of motor vehicles, trailers and semi-trailers
- 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 Manufacture of other transport equipment
- 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 Manufacture of furniture; manufacturing 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 Recycling
- 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 Electricity, gas, steam and hot water supply
- 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 Collection, purification and distribution of water
- 41.0 Collection, purification and distribution of water

Section F - Construction

- 45 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 Sale, maintenance and repair of motor vehicles and motorcycles; retail sale of automotive fuel
- 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 Wholesale trade and commission trade, except of motor vehicles and motorcycles
- 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 Retail trade, except of motor vehicles and motorcycles; repair of personal and household goods
- 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 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 Land transport; transport via pipelines
- 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 Water transport
- 61.10 Sea and coastal water transport
- 61.20 Inland water transport

- 62 Air transport
- 62.10 Scheduled air transport
- 62.20 Non-scheduled air transport
- 62.30 Space transport

- 63 Supporting and auxiliary transport activities; activities of travel agencies
- 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 Post and telecommunications
- 64.11 National post activities
- 64.12 Courier activities other than national post activities
- 64.20 Telecommunications

Section J-Financial intermediation

- 65 Financial intermediation, except insurance and pension funding
- 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 Insurance and pension funding, except compulsory social security
- 66.01 Life insurance
- 66.02 Pension funding
- 66.03 Non-life insurance

- 67 Activities auxiliary to financial intermediation
- 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 Real estate 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 Renting of machinery and equipment without operator and of personal and household goods
 - 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 Computer and related activities
 - 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 Research and development
 - 73.10 Research and experimental development on natural and engineering
 - 73.20 Research and experimental development on social sciences and humanities
- 74 Other business activities
 - 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 Public administration and defence; compulsory social security
 - 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 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 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 Sewage and refuse disposal, sanitation and similar activities
 - 90.0 Sewage and refuse disposal, sanitation and similar activities
- 91 Activities of membership organizations nec.
 - 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 Recreational, cultural and sporting activities
 - 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 Other service activities
- 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 Private households with employed persons
- 95.0 Private household with employed persons

Section Q – Extra-territorial organizations and bodies

- 99 Extra-territorial organizations and bodies
- 99.00 Extra-territorial organization and bodies