

**Quality report of the European Union
Labour Force Survey
2011**

2013 edition

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1 Introduction

The present report is the Quality Report on the European Union Labour Force Survey (EU-LFS) for the year 2011.

The quality concept applied in this report is in conformity with the definition developed by the European Statistical System. In this definition quality consists of the following components: relevance, accuracy, timeliness and punctuality, accessibility and clarity, comparability and coherence. Each quality component consists also of several sub-components. Each of the quality components is explained shortly at the start of each section in the following report⁽¹⁾.

The individual country quality reports that were delivered to Eurostat during summer 2012 constitute the main source for the present report. Other sources that have been used or consulted are meta-data information collected by Eurostat, national quality reports from previous years, websites of the individual countries, the LFS datasets for 2011 and the documentation of the public free data set maintained by Eurostat.

The present quality report follows closely the standard Quality Report format that has been developed within Eurostat. In many instances, however, it is impossible to present the data exactly as prescribed by the standard Eurostat format, as this is geared to report homogeneous production processes within each country. This is not the case for the EU-LFS, which is the result of the collection of national data sets from NSIs. In some cases the information from the individual countries was not sufficient to provide an exact summary.

The quality reports provide also information on unemployment statistics at regional level, as the reporting of quality is a joint effort of the units within Eurostat dealing with labour force surveys and with regional employment and unemployment. The last chapter of the present report covers the regional aspects.

This quality report complements the methodological working paper describing the characteristics of the national surveys in the Member States, Candidate Countries and the EFTA countries, also available on the Eurostat website⁽²⁾.

Eurostat wishes to thank the many experts in the countries participating in the conduct of the EU-LFS, providing the data and descriptions as well as their support necessary for this report.

2 Overview of designs and methods of the EU-LFS in 2011

2.1 Coverage

This document covers all the thirty-three countries (participating countries) providing Eurostat with micro-data from their labour force surveys in 2011: the 27 Member States of the European Union, three EFTA countries (Iceland, which at the same time is a candidate country, Norway and Switzerland), and three candidate countries, i.e. Croatia, the former Yugoslav Republic of Macedonia⁽³⁾ and Turkey. All the territories of participating

⁽¹⁾ Most of the introductory texts shortly explaining each quality component are taken from the 'ESS Standard for Quality Reports', available at:

http://epp.eurostat.ec.europa.eu/portal/page/portal/ver-1/quality/documents/ESQR_FINAL.pdf.

⁽²⁾ Available at:

http://epp.eurostat.ec.europa.eu/portal/page/portal/employment_unemployment_lfs/publications/methods.

⁽³⁾ In some tables of this report the abbreviation MK is used for the former Yugoslav Republic of Macedonia. This is a provisional code which does not prejudice in any way the definitive nomenclature

countries are covered, except for Cyprus which only covers the areas under the control of the government of the Republic of Cyprus, and except for the French overseas departments (DOM)⁽⁴⁾.

The EU-LFS covers persons in private households. However, in several countries also members of collective households are sampled, either directly (register based sampling frames) or indirectly through their relationship with the sampled household.

In Eurostat datasets all age groups are represented for all participating countries, with the exception of Iceland, Norway, Sweden and Switzerland, which only provide data respectively for those aged 16-74, 15-74 (Norway and Sweden) and 15 and more.

2.2 Legal basis

The EU-LFS is regulated by several regulations of the Council and the European Parliament and of the Commission. The most important regulations are listed in table 2.1.

In addition to European regulations, many participating countries have their own national legislation for the conduct of a labour force survey. Information on the national laws or regulations is not collected for this report.

2.3 Compulsory participation

In 2011 the participation in the EU-LFS was compulsory in fourteen participating countries (Belgium, Germany, Greece, Spain, France, Italy, Cyprus, Malta, Austria, Portugal, Slovakia, Norway, Switzerland, and Turkey), and voluntary in the other countries.

2.4 Reference week

The EU-LFS is designed as a continuous quarterly survey with interviews spread uniformly over all weeks of a quarter. Each reference week starts on Monday and ends on Sunday. The first week of a year or quarter is defined as the week that includes the first Thursday of the year or the quarter. All countries conduct the LFS as a continuous survey, except Turkey. Turkey, although producing quarterly results, only covers the first week of each month for the time being.

for this country, which will be agreed following the conclusions of negotiations currently taking place on this subject at the United Nations.

⁽⁴⁾ The French overseas departments (*Département d'outre-mer* - DOM) only have a partial coverage over time, as data collection only refers to quarter 2. In the present document only data for Metropolitan France are presented.

Table 2.1 Major regulations of the EU- LFS relating to 2011 data collection

| General regulations | Comments |
|---|---|
| Council Regulation (EC) No 577/98 of 9 March 1998 on the organisation of a labour force sample survey in the Community (OJ No L 77/3). | This is the main regulation with provisions on design, survey characteristics and decision making processes. |
| Regulation (EC) No 1991/2002 of the European Parliament and of the Council of 8 October 2002 amending Council Regulation (EC) No 577/98 on the organisation of a labour force sample survey in the Community (OJ No L 308/1). | This regulation puts a time limit on the adoption of the continuous LFS. |
| Regulation (EC) No 2257/2003 of the European Parliament and of the Council of 25 November 2003 amending Council Regulation (EC) No 577/98 on the organisation of a labour force sample survey in the Community to adapt the list of survey characteristics (OJ No L 336/6). | This regulation introduces 6 new variables and allows the wave approach for structural variables. |
| Regulation (EC) No 1372/2007 of the European Parliament and of the Council of 23 October 2007 amending Council Regulation (EC) No 577/98 on the organisation of a labour force sample survey in the Community (OJ No L 315/42). | This regulation changes the status of the survey characteristic 'income' from optional to mandatory. |
| Implementation regulations | Comments |
| Commission Regulation (EC) No 1897/2000 of 7 September 2000 implementing Council Regulation (EC) No 577/98 on the organisation of a labour force sample survey in the Community concerning the operational definition of unemployment (OJ No L 228/18). | Also contains the 12 principles for constructing the questionnaire |
| Commission Regulation (EC) No 365/2008 of 23 April 2008 adopting the programme of ad hoc modules, covering the years 2010, 2011 and 2012, for the labour force sample survey provided for by Council Regulation (EC) No 577/98 (OJ No L 112/22). | Programme for the ad hoc modules 2010 to 2012 |
| Commission Regulation (EC) No 377/2008 of 25 April 2008 implementing Council Regulation (EC) No 577/98 on the organisation of a labour force sample survey in the Community as regards the codification to be used for data transmission from 2009 onwards, the use of a sub-sample for the collection of data on structural variables and the definition of the reference quarters (OJ No L 114/57). | Codification 2009, including the compulsory survey characteristic 'income' and the general definition of reference quarters |

2.5 Periodicity of the results

All participating countries in the EU-LFS in 2011 produce quarterly estimates.

2.6 Sampling designs

The sampling designs in the EU-LFS are very varied. Most NSIs use some kind of multi-staged stratified random sample design, especially those that do not have central population registers available.

Bases used for the sample

Population registers and the latest Population Census or list of addresses used in that Census are the two main sources for the sampling frame. Other sources include lists of addresses from, e.g., the Postal Authorities or Utility databases. Belgium, Estonia, Italy, Lithuania, Luxembourg, Austria, Norway, Finland, Sweden, Iceland, and Slovenia use the Population Registers as the sole basis while the Netherlands complete this information with postal data, Denmark with other registers, Latvia and Spain with Census information. Germany grounds the sample frame on the 1987 Census in the western part⁽⁵⁾ and on the Central Population Register, based on the 1981 Census, in the east, both updated by the Register of new dwellings.

⁽⁵⁾ The continuous population updating procedure which updates last German census in 1987 in the western part and the Central Population Register in the east by using statistics on births, deaths and migration provides population figures used for calibration. These old updated bases which are used also as sample frame for dwellings not built after 1987 and 1981 respectively may lead to some bias in LFS results.

Sampling stages and primary sampling units (PSU)

Denmark, Germany, Luxembourg, Malta, Austria, Slovenia, Finland, Sweden, the United Kingdom, Iceland, Estonia, Lithuania and Norway use a single stage sampling or single stage cluster sampling design. All other countries use a two or three stage sampling design, usually selecting municipalities, administrative districts or census enumeration areas in the first stage⁽⁶⁾.

Ultimate sampling units

Three types of ultimate sampling units are employed: 1) households, 2) dwellings/addresses and 3) persons. Germany, France, Ireland, Portugal and Romania sample clusters of dwelling units. In samples of dwellings or addresses, usually all persons and thus all households residing within the dwelling/address are interviewed. When persons constitute the primary sampling units, the selected persons either constitute the final sample (Finland, Sweden, Denmark, Iceland, and Switzerland) or the sampled persons lead to a final sample comprised of the sampling units and their household members (Estonia, Lithuania, Norway and Slovenia).

Overall sampling rate

The theoretical sampling rate per quarter (ultimate sampling units) of the EU-LFS is 0.44 % (EU-27: 0.45 %). Luxembourg (3.6%) and Ireland (3.0%) have by far the highest sampling rates per quarter, followed by Malta (2.25 %) and Iceland (1.9 %) while most other participating countries have sampling rates of 1 % or less. On average, the achieved quarterly sample in 2011 in all participating countries was 1.835 million individuals (EU-27: 1.625 million), of which 1.421 million were in the age group 15-74 years (EU-27: 1.257 million). The achieved sample in the EU-LFS is thus approximately 0.29 % of the total population.

Stratification

All countries, except Lithuania, Luxembourg, Malta and Iceland, stratify the sample frame prior to the sampling. All countries but Denmark use the region, either at NUTS 2, NUTS 3, NUTS 4 level or nationally defined areas, as stratification variable. The degree of urbanization (France, Spain, Ireland, Cyprus, Latvia, Poland, Slovenia, Bulgaria) or the classification in “urban / rural area” (Romania) is also a common stratification variable. Other stratification variables include for example register status of individuals in employment/unemployment registers (Denmark), population of town/community (Greece), and auxiliary information about the characteristics (size, type) of the primary sampling units (Spain, France, Italy, Hungary).

2.7 Rotation schemes

All participating countries except Belgium and Luxembourg use a rotating panel design for the samples. The number of panels (waves) ranges from two to eight. All panel designs foresee an overlap between one quarter and the successive one, except for Germany, which only has a year-to-year overlap. The most common panel design with a quarterly overlap in 2011, adopted by 13 participating countries, is 2-(2)-2, where sampled units are interviewed for two consecutive quarters, than stay out of the sample for the next two quarters and are included again two more times afterwards. Other widespread rotation patterns, each used by six countries, are in for 5 and in for 6 waves, where each panel is

⁽⁶⁾ Ireland is a special case, using a two-stage cluster design (see EU-LFS quality report 2009).

interviewed consecutively for five or six quarters before permanently leaving the sample. Three other rotation schemes are used by one or maximum two countries.

Depending on the national priorities with regard to the desired precision of change estimates, levels or annual averages, the number of waves and skip patterns lead to different outcomes of overlaps between two successive quarters or between the same quarters in two successive years. All panel designs with a quarter-to-quarter overlap foresee an overlap of 50 % or more⁽⁷⁾ of the sample between two successive quarters. There is less emphasis on overlap between corresponding quarters in two successive years. Two countries, Belgium and Luxembourg, have no overlap; six countries have an overlap of 20 % while most other countries have an overlap ranging from 33 % to 50 %. Germany has 75 % overlap with the previous year.

2.8 Calculation of the weighting factors

Council Regulation (EC) No 577/98 on the EU-LFS stipulates that weighting factors should take into account 'in particular the probability of selection and external data relating to the distribution of the population being surveyed, by sex, age (five-year age groups) and region (NUTS 2 level), where such external data are held to be sufficiently reliable by the Member States concerned' (Article 3(5)).

The methods of calculating the weights differ considerably between countries. Two main methods are used, depending on the detail of the external information and whether or not this external information can be cross-tabulated: 1) inverse of the selection probabilities adjusted a posteriori to the population's distribution by sex, age groups and other external (administrative) sources, and 2) different variations of adjusting to marginal totals, including generalized calibration and generalized regression. Most of the countries adjust for non-response either directly in the weighting process or in a preliminary step before adjusting the weights to external sources.

Due to the complexity and number of factors taken into account in some of the weighting calculations, the requirement of the Regulation to use five-year age groups is not implemented in all countries. Almost all countries adjust the weighting factors to regional levels. These regions may, however, not necessarily correspond to the NUTS 2 regional classification.

All countries with the exception of Croatia use data on sex in the weighting process. Croatia does not either use age in calculating the weighting factors while six countries (Bulgaria, Germany, Greece, Hungary, Malta, and Slovenia)⁽⁸⁾ use broader age groups than five-year ones. All countries that have NUTS 2 regions defined use at least NUTS 2 regions for calculating the weights, but twenty-one countries (Bulgaria, the Czech Republic, Germany, Croatia, Estonia, Greece, Spain, Ireland, former Yugoslav Republic of Macedonia, Italy, Hungary, Latvia, Lithuania, Malta, Slovakia, Slovenia, Portugal, Finland, Sweden, Switzerland, and Norway) use a more detailed regional classification (NUTS 3 or LAU1; groups of NUTS 3).

Denmark, Finland, Sweden and Norway use register statistics on employment/unemployment directly for weighting. In other countries, different external distributions or sources are frequently used both for weighting and stratification, such as urban/rural distinction, nationality, ethnicity, and size classes of regions or local areas.

⁽⁷⁾ These percentages are only theoretical; the actual overlaps are lower due to non-response and panel attrition.

⁽⁸⁾ Luxembourg, Poland, and Turkey use the five-year age groups up until the 60-64 years old.

Seventeen countries, namely Belgium, Bulgaria, Denmark, Germany, Estonia, Ireland, Malta, Portugal, Romania, Slovenia, Slovakia, Finland, Sweden, the United Kingdom, Iceland, Norway and Switzerland, gross the sample to the total population, i.e. including people living in institutional households, although some of them do not (Belgium, Ireland, Malta, Slovenia and Switzerland) or only partially (Bulgaria, Portugal, Romania, Slovakia) cover the institutional population in data collection.

2.9 Data collection methods

Four modes of data collection exist for the EU-LFS: personal visits, telephone interviews, web interviews and self-administered questionnaires. Seventeen countries conduct the first wave always or mainly via personal visit, while subsequent waves are interviewed with telephone, if available. Germany collects data mainly with face-to-face interviews (using CAPI); persons not available for the interviewer or refusing oral interviews are in a few cases interviewed by telephone or more frequently fill in self-administered postal questionnaires. Denmark collects data for the core-LFS with telephone interviews (CATI), but for the household subsample computer assisted web interviews (CAWI) are used. Belgium conducts the interviews by means of face-to-face (CAPI), but in households of retired persons, interviews can be conducted by telephone. Six countries (Luxembourg, Finland, Sweden, Iceland, Norway and Switzerland) rely solely on telephone interviews. Italy uses a mixed mode CAPI-CATI: CAPI mainly for first wave and CATI mainly for later waves. Six countries (Bulgaria, Estonia, Ireland, Romania, Croatia and Turkey) collect data using only face-to-face interviews. Among those Ireland, Estonia and Turkey using computerized questionnaires (CAPI).

Most countries conduct the interview only with computerized questionnaires. Four (Malta, Germany, Estonia and Poland) use both computerized and paper questionnaires and five countries (Bulgaria, Greece, Hungary, Romania, Croatia) rely solely on paper questionnaires.

2.10 Use of subsamples to survey structural variables

In 2011, ten countries (Bulgaria, Czech Republic, Germany, Spain, France, the Netherlands, Finland, the United Kingdom, Norway and Switzerland) use a subsample to survey all or some of the thirty-nine structural variables, taking advantage of this possibility offered by Regulation (EC) No 2257/2003. The subsample coincides with one rotation panel in total sample, except for France, Norway, which use both the first and the last survey waves, and Switzerland, which uses the first and the penultimate wave. For Germany the subsample is randomly selected and presents 10 % of the total yearly sample.

Regulation (EC) No 377/2008 stipulates that the estimates produced from the yearly subsample should be consistent with those obtained as annual averages of the full quarterly samples, at least as regards the ILO labour force status broken down by sex and 10-year age groups. This requirement aims at ensuring the consistency of the main indicators (e.g. the employment or the unemployment rates) and their break-downs produced from the two different databases. In 2011, such consistency is ensured by all countries with small deviations for France and the Netherlands.

2.11 Burden of the EU-LFS

Twenty-nine countries gave some information on how long the interview lasted per person or household. The overall time to collect the information for the household was on average

about 30 minutes for the first wave and around 23 minutes for the following waves (information from 17 countries). The interview of single persons in the first wave lasted on average approximately 13 minutes, while subsequent waves took on average around 10 minutes (information from 17 countries).

3 Relevance

Relevance is the degree to which statistics meet current and potential user needs. It depends on whether all statistics that are needed are produced and the extent to which concepts used (definitions, classifications etc.) reflect user needs. It can be assessed by analyzing the different users, who they are, what needs they have, whether they are satisfied etc.

Most EU statistics are compiled according to regulations containing a defined list of variables, which reflect in particular the most relevant institutional users' needs. Examining the completeness of the statistics measured against the relevant regulation is therefore a way to assess the actual relevance of those statistics.

3.1 The users

Eurostat does not carry out regular satisfaction surveys targeted only at users of labour markets statistics. In 2011 Eurostat carried out a LFS Rolling Review through its Quality Assurance Framework which included a user survey. Most users stressed the importance of the EU-LFS results. The results were acknowledged as essential both for the European Commission and its agencies and for international organisations. The data are equally important or even essential for most users from universities, research institutes and businesses⁽⁹⁾.

The main institutional users are known to the unit F3 Labour Market (see Table 3.1). Many of them are frequently consulted on various aspects of development and dissemination of labour force statistics.

For major topics of interest, the instrument of ad hoc modules has proven to be useful and flexible in addition to the standard EU-LFS. Some users, however, seek for more timely data release, at least of a few main indicators. The availability of a release calendar for the main indicators produced by the EU-LFS, even with conservative delays, has been favorably received by users.

⁽⁹⁾ http://epp.eurostat.ec.europa.eu/portal/page/portal/quality/evaluation/domain_specific_results

Table 3.1 Classification and description of users

| User | Description of user | Needs in term of concepts/statistics |
|--|--|--|
| DG Employment | The policy arm of the Commission regarding the labour market | Measurement and monitoring of policy agenda, especially the Lisbon and Stockholm targets and the European Strategy for Jobs and Growth (Europe 2020) |
| Other Directorates of the Commission | Policy setting | Various, especially in the domains of economic, education and social policy |
| ECB | The European Central Bank | Short term statistics relating to Euro area |
| OECD | Organisation for Economic Co-operation and Development | Varied, detailed tabulations from EU-LFS data |
| ESTAT - Unit E4 | Regional statistics and geographical information | Detailed regional statistics, structural funds |
| ESTAT - Unit C2 | National accounts - production | Estimates of amount and quality of labour input, using both the national and domestic concept |
| ESTAT - Unit F5 | Education, science and culture statistics | Estimates on current education and education levels, higher education and research |
| Other registered users of the web-data | Including NSIs, international organisations | International comparison of main indicators |
| Researchers | Research institutions (universities, etc.) | EU-LFS microdata |
| The public | Researchers, news agencies and other | Varied, mainly intra EU comparisons |

3.2 Completeness

Since 2005, all Member States of the EU conduct a continuous survey and provide quarterly results. In 2010 Switzerland was the last participating country which moved to a continuous survey. Thus, since 2010 all ESS countries provide quarterly and annual data.

Even if otherwise adhering to the EU-regulations on the EU-LFS, countries do not always provide data for all the variables. The reason can be for example the (temporary) inability to implement the variable in the national questionnaire.

A special case is the coverage of the household variables by the countries sampling individuals, i.e. the Nordic countries and Switzerland. In 2011 no coverage of such variables was undertaken by Iceland and Switzerland (derogation), while Denmark, Finland and Sweden covered them in special household datasets. Norway only covered household information on the family members of working age, but provided no information on other possible members of the household (i.e. children under the age of 15).

A country by country and variable by variable analysis of the situation is provided in the Annex. Tables 3.2 and 3.3 summarize the completeness of data.

Table 3.2 Completeness of the EU-LFS variables, 2011

| Number of compulsory variables with 100 % item non-response ⁽¹⁾ | Number of participating countries | Of which: EU-27 Member States |
|--|-----------------------------------|-------------------------------|
| 0 | 23 | 22 |
| 1-4 | 8 | 4 |
| 5-9 | 1 | 1 |
| 10+ | 1 | 0 |
| Total | 33 | 27 |

⁽¹⁾ Not including variables that are empty because the filtering variable excluded any response. The variable INCDECIL is not included. The INCDECIL data may be forwarded to Eurostat within twenty-one months of the end of the reference period.

Table 3.3 Compulsory EU-LFS variables having one or more country returning 100 % non-response or constant value⁽¹⁾, 2011

| Column number ⁽²⁾ | Brief description | Number of countries | Of which: EU-27 |
|------------------------------|--|---------------------|-----------------|
| Col_001/2 | Sequence number in the household | 3 | 1 |
| Col_017/18 | Nationality | 1 | 0 |
| Col_025/26 | Reasons for not having worked at all though having a job | 1 | 1 |
| Col_028 | Continuing receipt of the wage or salary | 3 | 3 |
| Col_032/35 | Occupation | 1 | 0 |
| Col_039/40 | Country of place of work | 5 | 2 |
| Col_041/42 | Region of place of work | 3 | 2 |
| Col_055 | Contract with a temporary employment agency | 2 | 1 |
| Col_056 | Shift work | 1 | 0 |
| Col_057 | Evening work | 1 | 0 |
| Col_058 | Night work | 1 | 0 |
| Col_059 | Saturday work | 1 | 0 |
| Col_060 | Sunday work | 1 | 0 |
| Col_067/68 | Unpaid overtime in the reference week in the main job | 2 | 1 |
| Col_072 | Way how person wants to work more hours | 1 | 1 |
| Col_073/74 | Number of hours that the person would like to work in total | 2 | 0 |
| Col_075 | Working at home | 1 | 0 |
| Col_093 | Professional status in last job | 1 | 1 |
| Col_096/98 | Occupation of last job | 2 | 1 |
| Col_101 | Type of employment sought | 2 | 0 |
| Col_102 | Duration of search for employment | 1 | 0 |
| Col_103 | Contacted public employment to find work | 1 | 0 |
| Col_104 | Contacted private employment agency to find work | 4 | 2 |
| Col_105 | Applied to employers directly | 1 | 0 |
| Col_106 | Asked friends, relatives, trade unions etc. | 1 | 0 |
| Col_107 | Inserted or answered advertisements in newspapers or journals | 1 | 0 |
| Col_108 | Studied advertisements in newspapers or journals | 2 | 0 |
| Col_109 | Took a test, interview or examination | 2 | 1 |
| Col_110 | Looked for land, premises or equipment | 10 | 8 |
| Col_111 | Looked for permits, licenses, financial resources | 10 | 7 |
| Col_112 | Awaiting the results of an application for a job | 5 | 4 |
| Col_113 | Waiting for a call from a public employment office | 8 | 5 |
| Col_114 | Awaiting the results of a competition for recruitment to the public sector | 17 | 12 |
| Col_115 | Other method used | 9 | 8 |
| Col_117 | Availability to start working within two weeks | 1 | 0 |
| Col_118 | Reasons for not being available to start working within 2 weeks | 3 | 1 |
| Col_119 | Situation immediately before person started to seek employment (or was waiting for new job to start) | 3 | 2 |
| Col_120 | Need for care facilities | 1 | 0 |
| Col_121 | Registration at a public employment office | 2 | 1 |
| Col_125/127 | Field of this education or training | 1 | 0 |
| Col_133/134 | Field of the most recent taught-learning activity | 1 | 0 |
| Col_146 | Situation with regard to activity one year before survey | 1 | 1 |
| Col_150/151 | Country of residence one year before survey | 1 | 1 |
| Col_152/153 | Region of residence (within Member State) one year before survey | 1 | 1 |
| Col_168 | Degree of urbanisation | 3 | 1 |
| Col_195 | Sequence number of the survey wave | 3 | 3 |

⁽¹⁾ Excluding variables which are constant by default such as country, reference year, region (if NUTS 2 is the whole country). The variable INCDECIL is not included. The INCDECIL data may be forwarded to Eurostat within twenty-one months of the end of the reference period.

⁽²⁾ According to Commission Regulation (EC) No. 377/2008.

4 Accuracy

The accuracy of statistical outputs in the general statistical sense is the degree of closeness of estimates to the true values. Statistics can be different from the true values because of random variability (the statistics change from implementation to implementation of the survey due to random effects) and/or bias (the average of the possible values of the statistics from implementation to implementation is not equal to the true value due to systematic effects).

Several types of error, stemming from all survey processes, contribute to the error of the statistics (their bias and variability). A certain typology of errors is widely adopted in statistics. **Sampling errors** affect only sample surveys; they are due to the fact that only a subset of the population, usually randomly selected, is surveyed. **Non-sampling errors** affect sample surveys and complete enumerations alike and comprise: 1. Coverage errors; 2. Measurement errors; 3. Processing errors; 4. Non-response errors; and 5. Model assumption errors.

4.1 Sampling errors

Sampling errors affect only sample surveys and arise from the fact that not all units of the frame population are surveyed. The *frame* is a device that permits access to population units, such as a list of households with addresses. *Frame population* is the set of population units which can be accessed through the frame and the survey's conclusions apply to this population.

Official surveys, like the EU-LFS, use probability sampling. This makes it possible to quantify the sampling errors and can be expressed in terms of confidence intervals. Table 4.1 provides the estimates and 95 % confidence limits for the 2nd quarter 2011 reached for the five main indicators. For example, interval 217,128 – 218,166 covers the true value of employed persons on aggregated EU-27 level with a 95 % probability. The table 4.2 provides estimates and confidence limits for the annual averages for 2011.

Table 4.1 Confidence limits⁽¹⁾, 2nd quarter 2011

| | Number of employed (x1000) | Number of part-time employed (x1000) | Number of unemployed (x1000) | Rate of unemployment (%) | Average number of hours actually worked ⁽²⁾ (Hrs.) |
|--------------|-------------------------------|---|---------------------------------|-----------------------------|--|
| EU-27 | 217 647 ±519 | 42 611 ±330 | 22 283 ±226 | 9.3 ±0.1 | 37.0 ±0.1 |
| EU-25 | 205 503 ±400 | 41 557 ±305 | 21 202 ±215 | 9.4 ±0.1 | 36.8 ±0.1 |
| EU-15 | 174 033 ±376 | 39 237 ±298 | 17 718 ±202 | 9.2 ±0.1 | 36.2 ±0.1 |
| EA-17 | 139 136 ±341 | 29 656 ±230 | 14 807 ±185 | 9.6 ±0.2 | 36.5 ±0.1 |
| EA-12 | 137 596 ±340 | 29 498 ±229 | 14 637 ±185 | 9.6 ±0.2 | 36.5 ±0.1 |
| EEA | 220 346 ±519 | 43 367 ±331 | 22 391 ±226 | 9.2 ±0.1 | 36.9 ±0.1 |
| BE | 4 544 ± 69 | 1 157 ± 52 | 320 ± 33 | 6.6 ±0.7 | 37.3 ±0.5 |
| BG | 2 934 ± 78 | 73 ± 10 | 370 ± 27 | 11.2 ±0.8 | 40.0 ±0.2 |
| CZ | 4 908 ± 43 | 269 ± 15 | 355 ± 18 | 6.7 ±0.4 | 41.2 ±0.1 |
| DK | 2 713 ± 20 | 716 ± 21 | 214 ± 12 | 7.3 ±0.4 | 35.1 ±0.3 |
| DE | 39 651 ±207 | 10 606 ±130 | 2 472 ± 77 | 5.9 ±0.2 | 35.5 ±0.2 |
| EE | 603 ± 21 | 65 ± 10 | 92 ± 12 | 13.3 ±1.6 | 38.6 ±0.6 |
| IE | 1 861 ± 19 | 437 ± 13 | 317 ± 12 | 14.6 ±0.5 | 35.1 ±0.6 |
| EL | 4 156 ± 94 | 268 ± 18 | 811 ± 48 | 16.3 ±0.8 | 41.3 ±0.3 |
| ES | 18 303 ±111 | 2 588 ± 71 | 4 834 ± 92 | 20.9 ±0.4 | 37.6 ±0.2 |
| FR | 25 869 ±147 | 4 674 ±124 | 2 465 ± 95 | 8.7 ±0.3 | 36.8 ±0.2 |
| IT | 23 094 ±131 | 3 586 ± 92 | 1 947 ± 74 | 7.8 ±0.3 | 37.3 ±0.1 |
| CY | 402 ± 10 | 41 ± 4 | 31 ± 3 | 7.2 ±0.8 | 38.5 ±0.3 |
| LV | 859 ± 18 | 74 ± 11 | 177 ± 14 | 17.1 ±1.2 | 39.2 ±0.4 |
| LT | 1 265 ± 36 | 109 ± 11 | 232 ± 19 | 15.5 ±1.2 | 39.2 ±0.4 |
| LU | 222 ± 9 | 40 ± 4 | 13 ± 3 | 5.4 ±1.1 | 38.1 ±0.6 |
| HU | 3 809 ± 33 | 263 ± 15 | 461 ± 21 | 10.8 ±0.5 | 39.2 ±0.1 |
| MT | 168 ± 5 | 22 ± 2 | 12 ± 2 | 6.7 ±1.0 | 38.3 ±0.4 |
| NL | 8 345 ± 44 | 4 095 ± 43 | 365 ± 15 | 4.2 ±0.2 | 31.7 ±0.2 |
| AT | 4 141 ± 46 | 1 048 ± 28 | 175 ± 14 | 4.1 ±0.3 | 36.8 ±0.3 |
| PL | 16 163 ±111 | 1 284 ± 55 | 1 690 ± 58 | 9.5 ±0.3 | 40.2 ±0.2 |
| PT | 4 893 ± 55 | 633 ± 32 | 675 ± 36 | 12.1 ±0.6 | 38.2 ±0.3 |
| RO | 9 210 ±321 | 981 ±126 | 711 ± 65 | 7.2 ±0.6 | 40.1 ±0.3 |
| SI | 938 ± 20 | 93 ± 7 | 78 ± 7 | 7.7 ±0.7 | 38.7 ±0.3 |
| SK | 2 356 ± 24 | 100 ± 9 | 357 ± 17 | 13.2 ±0.9 | 39.6 ±0.2 |
| FI | 2 517 ± 18 | 366 ± 13 | 244 ± 10 | 8.8 ±0.4 | 36.4 ±0.2 |
| SE | 4 661 ± 19 | 1 218 ± 24 | 420 ± 13 | 8.3 ±0.2 | 35.3 ±0.2 |
| UK | 29 063 ±159 | 7 804 ±188 | 2 446 ± 81 | 7.8 ±0.3 | 35.2 ±0.1 |
| IS | 169 ± 3 | 33 ± 2 | 16 ± 2 | 8.4 ±1.0 | 39.9 ±0.7 |
| NO | 2 530 ± 17 | 723 ± 18 | 92 ± 8 | 3.5 ±0.3 | 33.4 ±0.2 |
| CH | 4 369 ± 50 | 1 527 ± 36 | 162 ± 13 | 3.6 ±0.3 | 36.6 ±0.2 |
| HR | 1 480 ± 80 | 140 ± 24 | 231 ± 24 | 13.5 ±1.3 | 39.4 ±0.5 |
| MK | 643 ± 35 | 39 ± 5 | 293 ± 25 | 31.3 ±2.0 | 41.7 ±0.6 |
| TR | 24 445 ±254 | 2 980 ±131 | 2 282 ± 83 | 8.5 ±0.3 | 48.5 ±0.3 |

(¹) The confidence limits at 95 % level of significance.

(²) By people who worked at least one hour in the reference week.

Note: Confidence limits for the EU aggregates are Eurostat's own estimates.

Source: EU-LFS Standard Quality Report

Table 4.2 Confidence limits⁽¹⁾, annual average 2011

| | Number of employed (x1000) | Number of part-time employed (x1000) | Number of unemployed (x1000) | Rate of unemployment (%) | Average number of hours actually worked ⁽²⁾ (Hrs.) |
|--------------|-------------------------------|---|---------------------------------|-----------------------------|--|
| EU-27 | 217 021 ±532 | 42 335 ±310 | 23 012 ±203 | 9.6 ±0.10 | 37.2 ±0.05 |
| EU-25 | 204 934 ±497 | 41 309 ±303 | 21 909 ±199 | 9.7 ±0.11 | 37.0 ±0.05 |
| EU-15 | 138 587 ±222 | 29 461 ±157 | 15 384 ±116 | 10.0 ±0.12 | 36.7 ±0.05 |
| EA-17 | 141 547 ±223 | 29 623 ±158 | 15 839 ±117 | 10.1 ±0.12 | 36.8 ±0.05 |
| EA-12 | 137 084 ±221 | 29 301 ±157 | 15 255 ±116 | 10.0 ±0.12 | 36.7 ±0.05 |
| EEA | 219 723 ±533 | 43 081 ±310 | 23 109 ±203 | 9.5 ±0.10 | 37.2 ±0.05 |
| BE | 4 509 ± 35 | 1 132 ± 25 | 347 ± 17 | 7.1 ±0.4 | 37.2 ±0.2 |
| BG | 2 950 ± 62 | 70 ± 7 | 372 ± 21 | 11.2 ±0.6 | 40.3 ±0.1 |
| CZ | 4 904 ± 37 | 267 ± 12 | 354 ± 13 | 6.7 ±0.3 | 40.5 ±0.1 |
| DK | 2 703 ± 14 | 699 ± 14 | 221 ± 8 | 7.6 ±0.3 | 35.4 ±0.2 |
| DE | 39 737 ±109 | 10 577 ± 64 | 2 501 ± 39 | 5.9 ±0.1 | 35.9 ±0.1 |
| EE | 609 ± 15 | 64 ± 6 | 87 ± 7 | 12.5 ±0.9 | 39.1 ±0.3 |
| IE | 1 849 ± 17 | 437 ± 19 | 317 ± 10 | 14.6 ±0.2 | 35.1 ±0.2 |
| EL | 4 091 ± 78 | 277 ± 15 | 877 ± 33 | 17.7 ±0.5 | 41.3 ±0.2 |
| ES | 18 105 ± 92 | 2 503 ± 50 | 4 999 ± 75 | 21.6 ±0.3 | 37.8 ±0.1 |
| FR | 25 778 ± 83 | 4 617 ±105 | 2 612 ± 43 | 9.2 ±0.2 | 37.1 ±0.2 |
| IT | 22 967 ± 90 | 3 551 ± 59 | 2 108 ± 43 | 8.4 ±0.2 | 37.2 ±0.1 |
| CY | 398 ± 8 | 41 ± 3 | 34 ± 3 | 7.9 ±0.7 | 38.9 ±0.3 |
| LV | 862 ± 8 | 79 ± 5 | 167 ± 6 | 16.2 ±0.6 | 39.3 ±0.4 |
| LT | 1 256 ± 37 | 112 ± 11 | 226 ± 19 | 15.3 ±1.2 | 39.0 ±0.4 |
| LU | 225 ± 4 | 41 ± 2 | 12 ± 1 | 4.9 ±0.5 | 37.9 ±0.3 |
| HU | 3 812 ± 29 | 258 ± 13 | 468 ± 18 | 10.9 ±0.4 | 39.4 ±0.1 |
| MT | 169 ± 3 | 22 ± 1 | 12 ± 1 | 6.5 ±0.5 | 38.3 ±0.3 |
| NL | 8 369 ± 45 | 4 110 ± 34 | 389 ± 10 | 4.4 ±0.1 | 32.2 ±0.2 |
| AT | 4 144 ± 40 | 1 043 ± 23 | 179 ± 10 | 4.1 ±0.2 | 37.1 ±0.2 |
| PL | 16 130 ± 72 | 1 287 ± 35 | 1 723 ± 40 | 9.7 ±0.2 | 40.3 ±0.1 |
| PT | 4 837 ± 45 | 643 ± 23 | 706 ± 27 | 12.7 ±0.5 | 38.5 ±0.2 |
| RO | 9 138 ±181 | 956 ± 67 | 730 ± 36 | 7.4 ±0.5 | 39.5 ±0.2 |
| SI | 936 ± 17 | 97 ± 5 | 83 ± 5 | 8.2 ±0.5 | 38.9 ±0.2 |
| SK | 2 351 ± 18 | 97 ± 6 | 368 ± 12 | 13.5 ±0.6 | 39.6 ±0.2 |
| FI | 2 474 ± 13 | 369 ± 10 | 209 ± 6 | 7.8 ±0.2 | 36.7 ±0.1 |
| SE | 4 642 ± 16 | 1 204 ± 19 | 379 ± 8 | 7.5 ±0.1 | 36.3 ±0.2 |
| UK | 29 078 ±433 | 7 779 ±254 | 2 534 ±153 | 8.0 ±0.5 | 35.6 ±0.3 |
| IS | 166 ± 2 | 35 ± 1 | 13 ± 1 | 7.0 ±0.5 | 40.0 ±0.3 |
| NO | 2 536 ± 16 | 712 ± 17 | 84 ± 8 | 3.2 ±0.3 | 34.6 ±0.2 |
| CH | 4 366 ± 50 | 1 530 ± 36 | 184 ± 15 | 4.0 ±0.3 | 37.2 ±0.2 |
| HR | 1 493 ± 56 | 148 ± 18 | 232 ± 16 | 13.4 ±0.9 | 39.2 ±0.3 |
| MK | 645 ± 27 | 41 ± 4 | 295 ± 18 | 31.4 ±1.4 | 41.5 ±0.4 |
| TR | 24 099 ±392 | 2 888 ±117 | 2 324 ± 61 | 8.8 ±0.2 | 47.3 ±0.2 |

(¹)The confidence limits at 95 % level of significance.

(²) By people who worked at least one hour in the reference week.

Note: Confidence limits for the EU aggregates are Eurostat's own approximation.

Source: EU-LFS Standard Quality Report

4.2 Non-sampling errors

Coverage errors

Coverage errors (or frame errors) are due to divergences between the target population and the frame population. Possible divergence types are undercoverage (i.e. the frame population does not include all units of the target population), overcoverage (i.e. the frame population includes units which do not belong to the target population) and misclassification (i.e. units in the frame population which belong to the target population but are wrongly classified). Table 4.3 summarizes the information on the coverage errors given by the participating countries.

Table 4.3 Frame quality, coverage rates and methodological notes

| | Under-coverage | Over-coverage | Misclassification | Comments |
|----|----------------|---------------|-------------------|---|
| BE | < 0,5 % | →0 | →0 | <i>Undercoverage:</i> Households, all members of which are 77 years or older, and collective households (about 0.15 % of all households) are excluded before draw. Delay between draw of household (from NPR, kept up to date 'permanently') and fieldwork: between 2 and 6 months. |
| BG | | 9% | | <i>Overcoverage:</i> The sample is planned and formed on lists of households obtained from March 2001 Population Census. During the survey field work problems are found on: - Non-occupied houses or houses used for other purposes - One household (according to the Census list) divided into two or more separate households or the opposite. |
| CZ | | | | <i>Undercoverage:</i> Households are selected once a year from the Register of Census Areas. Due to differences in time span there is not the current information about addresses or flats. The sampling frame contains only private households. Persons living in institutional households are not covered. <i>Overcoverage:</i> Not existing or not inhabited flats remain in the Register of Census Areas. |
| DK | →0 | →0 | →0 | <i>Undercoverage:</i> Statistics Denmark applies registers that are expected to have full coverage. In the Danish LFS the main sampling frame is the Population Register supplemented with other registers for stratification purposes. The Population Register of Statistics Denmark covers all registered residents in Denmark, and the register is currently updated on a daily basis. In terms of both coverage and updating, as such, this is a high quality sampling frame. After selection the monthly LFS sub-samples are compared with the most updated Population register in order to both verify active status (alive and resident) and to add updated information on dwelling address. The Law of the Central Population Register gives everybody the right to refuse participation in statistical and scientific surveys. Residents who have used this right are guaranteed that they will not be contacted in relation to surveys, therefore people with this marking in the register are marked as non-response and not contacted. Although this share of the population is no longer rising, the problem remains relevant. It is particularly acute in the part of the population that moves often. This has been analysed by Statistics Denmark in a paper. The revised weighting scheme in use since 2007 tries to mitigate this problem. <i>Overcoverage:</i> See above |
| DE | | | | <i>Undercoverage:</i> Homeless people and other people without registered residence (e.g. people living in huts, caravans) are out of the frame. Apart from that German LFS is an area sample. All inhabited dwellings belong to the frame. Thus, changes of the population (e.g. by immigration, emigration) are included in the frame automatically. Main problem: The basis (census 1987) annually updated by the register of new dwellings is very old. The census 2011 will give the German LFS a better frame quality. |
| EE | | | | <i>Undercoverage:</i> In 2011 7,951 households of 13,173 households sampled for the survey, were interviewed. Among the households not interviewed, in 446 cases (3.4% of total number of sampled households) the reason was an error or inaccuracy of the frame (person emigrated or left the county, person deceased, wrong address, etc). By counties the share of frame errors varied from 1.8% to 4.7%. |

| | Under-coverage | Over-coverage | Misclassification | Comments |
|----|----------------|---------------|-------------------|--|
| IE | | | | <i>Undercoverage:</i> Our frame is the Census of population and as such we have no quality concerns regarding our frame. |
| EL | | | | <i>Undercoverage:</i> Population living in collective households or in dwellings outside the borders of built areas is not covered. Frames are compiled at census, and sampling rates are based at census population. Frames are updated at the first time when the primary sampling units are selected but not at subsequent waves. <i>Overcoverage:</i> The sample in Greek LFS is a sample of dwellings. The percentage of over-coverage is computed as the percentage of dwellings that are either used as 'secondary residence' of the household or they are used solely for business purposes (e.g. a doctor's office) |
| ES | 1.3 % | 20.2 % | NA | <i>Undercoverage:</i> Percentage calculated as 'omitted' dwellings detected in the 'quality control survey'. Measures of impact not available. <i>Overcoverage:</i> The touristic areas are more prone to higher rates. <i>Misclassification:</i> The dwelling cannot be 'wrong classified' and within the target population, at the same time. |
| FR | | | | <i>Undercoverage:</i> New dwellings seem to be underrepresented in the old sample (RP). The new sample (TH) does not cover very new buildings (less than 2 years old); yet this is taken into account in the weighting since the calibration method uses the number of new dwellings. |
| IT | : | 1.5 % | 1.5 % | <i>Undercoverage:</i> Households are selected once a year from the municipalities' registry offices; they cover the whole reference population. The data might contain errors as for information such as addresses (due for instance to recent change of the address), wrong inclusions (recent emigration) and missed inclusions (recent immigration). As for the survey's management strategies, Istat requires that each non-responding household be replaced with a household having similar characteristics of the first one, in order to maintain as much as possible the sample representativeness and to minimise the impact of unit non-response. Up to 3 replacements are admitted. |
| CY | 2.0 % | | | <i>Undercoverage:</i> In the first stage of the sample design a number of primary sampling units (PSUs) were drawn in 2005 from the Census of Population frame of 2001. In a post enumeration survey conducted after the census an undercoverage of 2.0 % was estimated. The selected PSUs were again enumerated completely in 2005. In the 2nd stage of the sample design a number of households were selected from the updated PSUs. Updating to include newly constructed dwellings is carried out on an annual basis. Although the selected PSUs are completely updated annually, the original selection of PSUs was based on the distribution of households as enumerated in the 2001 Census. This assumes that the development of the selected PSUs was the same as in the rest of the areas which were not selected and this might not be completely true. <i>Overcoverage:</i> The sample size per year is approximately 18 400 dwelling units containing approximately 3400 households per quarter. The difference is empty houses. |
| LV | | 6.8 % | | <i>Undercoverage:</i> The shortcoming is that the number of households in counting areas has not been updated from year 2000. In general the list of counting areas covers all territory of Latvia, but there could be some territories not covered by the list. It is due to active building of new dwellings in previously unoccupied areas during the last years. <i>Overcoverage:</i> Overall in the year 6.8% of overcoverage from sample. Main reason of it are, rarely updated register were can be old information. Also other reasons will be checked. |
| LT | | | | <i>Undercoverage:</i> Among not interviewed households, in 2094 cases (7% of total number of sampled households) the reason was an error or inaccuracy of the frame (imprecise address, the premises at the indicated address are non-residential (a hairdresser's, shop, etc.), the building was knock down, etc). One of the problem is that some persons do not live in Lithuania for a long time and still are in the Residents' (Population) register. Also young move across the country without declaration of their living place. |
| LU | | | | <i>Undercoverage:</i> Households with no telephone will not be in the frame. |
| HU | | | | <i>Undercoverage:</i> Hard-to-access groups are characterized either by extremely bad traffic conditions to get to their place or by collective reluctance -- usually within a small community -- towards being interviewed. Though the effect of these factors cannot be estimated, it is supposed to be not significant. |

| | Under-coverage | Over-coverage | Misclassification | Comments |
|----|----------------|--|-------------------|---|
| MT | | | | <i>Undercoverage:</i> The sampling frame being used covers private households. Hence persons living in institutional households are not being covered. Since the 2005 Census is being used as a sampling frame, households created after 2005 are not represented. All regions may be affected as changes are homogeneous across Malta and Gozo. <i>Overcoverage:</i> There is over-representation for households created prior to 2005 and for households which were present in 2005 and no longer exist after 2005. |
| NL | : | : | : | |
| AT | : | : | : | <i>Undercoverage:</i> From 2004 onwards the sample for the Austrian LFS is drawn from the Austrian Register of Residents. This register was set up in 2002; still the composition of the households is not always recorded correctly. However as we are sampling households not persons this does not cause serious problems for the results of the survey. The sample is drawn three months before the start of the quarter. This results in a time lag of three to six months. Therefore dwellings where persons moved in after the due date for the survey are not covered. This results in undercoverage of recent migrants. |
| PL | : | : | : | |
| PT | : | 16.3 % | : | <i>Undercoverage:</i> The sampling frame doesn't cover the individuals living in collective dwellings. This population represents less than approximately 1%. |
| RO | 2.7 % | Q1: 2.3 % Q2: 2.6 % Q3: 2.5 % Q4: 2.6 % | : | <i>Undercoverage:</i> Due to the lack of appropriate information, the new dwellings, built after 2002 Census of the Population and Dwellings, that could possibly constitute a sampling frame of the new dwellings, have not been taken into account. Thus, an updates has been done for the PSU included in EMZOT, on the basis of a micro-census type survey(2006). The micro-census has aimed in particular the updating of the addresses of the dwellings. Under-coverage rate was estimated as the ratio between number of new permanent dwellings, built in the period end of 2002 year (the year of the census)- end of 2010 year (Source: Romanian Statistical Yearbook, 2010), and number of dwellings at the end of 2010 year (Source: Romanian Statistical Yearbook, 2011). Thus, it was assumed that the proportion of the new dwellings in total dwellings should be the same in the master sample. <i>Overcoverage:</i> Overcoverage rates were estimated on the basis of the survey samples, as ratio between number of not-eligible dwellings and number of sampled dwellings. |
| SI | →0 | →0 | →0 | <i>Undercoverage:</i> Register of private households would be better sampling frame, but we do not have it and we adjust data for unequal probability of selection of households. <i>Overcoverage:</i> Data is weighted to total population, because there are no reliable data about collective household's population. |
| SK | | | | <i>Undercoverage:</i> The LFS sample is based on a Population Census conducted once every ten years (last time in 2001). There is the lack of information on new statistical units during a rather long period. Errors as for information on addresses of dwellings; missing coverage of collective households, persons living in convents, partially student halls of residence (although they are surveyed via other members of the households), members of the Slovak embassies and institutions abroad. Under-coverage comprises people born abroad and living in collective houses. <i>Overcoverage:</i> Mainly young residents working temporarily abroad can stay to live there. <i>Misclassification:</i> Misclassification by incorrect identification is negligible |
| FI | →0 | | | <i>Undercoverage:</i> The sampling frame used is the total population database maintained by Statistics Finland. It is based on the Population Information System of The Population Register Centre and updated regularly. Undercoverage fairly small (no large-scale immigration). <i>Overcoverage:</i> Mostly emigration in wave 1, deaths and emigration for later waves. |
| SE | 1 % | 0.2 % | : | <i>Undercoverage:</i> The LFS sample is drawn once a year and the sampled persons are interviewed eight times during a two year period. No additional sample selection is made in order to update the sample with immigrants during this two-year period. The average time span between sample selection and the reference week is about 19 months, which means an under-coverage of about 50000 persons or 1 % of the population. This under-coverage is judged to have marginal effects on the LFS-estimates. <i>Overcoverage:</i> There is a certain over coverage in RTB and consequently in the sampling frame. The over coverage consists of people born abroad who left Sweden without reporting this to the Swedish authorities. When these persons are included in the |

| | Under-coverage | Over-coverage | Misclassification | Comments |
|----|----------------|--|-------------------|---|
| | | | | sample there are no information that they have moved out from Sweden. They cannot be reached for interview and will be classified as non-response. According to evaluation-studies made this over-coverage is mainly concentrated to non-Nordic immigrants and is of a magnitude of 25,000-50,000 persons in the total population (0.2 %). |
| UK | Approx. 1.5 % | | | <i>Undercoverage:</i> The LFS coverage omits communal establishments, excepting NHS housing and students in halls of residence. Members of the armed forces are only included if they live in private accommodation. The LFS, by not sampling from communal establishments, excludes approximately 1.5 % of the total GB population. |
| IS | →0 | →0 | →0 | No significant problems |
| NO | | | | <i>Undercoverage:</i> Do not include those 75 years and older. Imputes as outside the labour force. Number of persons employed about 0.25 per cent too low. <i>Misclassification:</i> Using family as a proxy for household at the moment |
| CH | | | | <i>Undercoverage:</i> Undercoverage of household without a fix phone number. <i>Overcoverage:</i> Overcoverage of persons having a second residence with a fix phone number. |
| HR | : | : | : | <i>Undercoverage:</i> Starting from the first half-year 2002, the sample frame for the LFS is based on the Census 2001 data. This sample frame includes addresses of private households on the whole territory of Croatia; hence the LFS results relate to the whole country. As the Census database was not updated since 2001, it is becoming obsolete, and some problems regarding migration and/or newly built dwellings can be foreseen for the coming years. |
| MK | | Q1: 9.1 % Q2: 8.6 % Q3: 8.0 % Q4: 8.5 % | | <i>Overcoverage:</i> Over-coverage rates were estimated on the basis of the survey samples, as ratio between number of not-eligible dwellings and number of sampled dwellings. |
| TR | : | 0.9 % | : | <i>Undercoverage:</i> Together with the establishment of National Address Database, frame errors are minimised since the database is regularly being updated and during the sample selection current database is taken for each quarter. <i>Overcoverage:</i> In the survey, over-coverage was determined due the reason that some addresses were miscoded in the database or the types were changed later on. Such non-eligible addresses (establishments, warehouses, parcels, etc.) were found during the field application of the survey and included in the calculation of the overcoverage ratio. |

Note: (:) indicates that information is not provided. *Blank* indicates that information is not available to NSI.
Source: EU-LFS Standard Quality Report

Measurement errors

Measurement errors are errors that occur during data collection and cause the recorded values of variables to be different from the true ones. Their causes are commonly categorized as:

- *Survey instrument:* the form, questionnaire or measuring device used for data collection may lead to the recording of wrong values.
- *Respondent:* respondents may, consciously or unconsciously, give erroneous information.
- *Interviewer:* interviewers may influence the answers given by respondents.

No regular estimates of these errors are available. However, the number of proxy interviews and statistics on the last updates of the questionnaire are all related to the error sources listed above (Table 4.4).

Table 4.4 Share of proxy interviews, number of interviews per interviewer and last update of the questionnaire

| | % of proxy interviews (unweighted) ⁽¹⁾ | Date of last update of the questionnaire | Date of the last pilot survey in order to test the questionnaire | Number of respondents to the pilot survey |
|-------------------|---|---|---|---|
| EU-27 | 33.0 | | | |
| BE | 18.5 | Nov.2010 (for the reference year 2011) | No pilot survey for the changes in 2011 | - |
| BG | 34.2 | Q1 2011 | 2007 | Around 1060 |
| CZ | 46.0 | December 2010 | 2001 | 891 |
| DK | 4.5 | LFS 2011 - September 2011 for Q4. | Q4 2010 (for household interviews) | 1000 |
| DE | 25.2 | Yearly | No pilot surveys, only yearly conducted cognitive pretests | - |
| EE | 27.2 | January 2011 | August – September 2010 | 175 |
| IE | 48.3 | September 2011 (for Q4 2011) | : | : |
| EL | 42.1 | January 2009 | No pilot survey | - |
| ES ² | 52.7 | June 2005 | 2004 | 3500 households were interviewed. |
| FR | 31.0 | Q1 2011 | 2005 | Around 250 |
| IT ⁽²⁾ | 15.3 | January 2011 for Q1, Q3 and Q4 - April 2011 for AHM in Q2 | November 2010 | 1,000 households |
| CY | 33.2 | September 2007 | October 2007 | 30 |
| LV | 40.6 | 2010 | May 2005 testing of CAPI | |
| LT | 32.3 | December 2011 | April 2010 | 35 |
| LU | 39.4 | Yearly | | |
| HU | 43.2 | August 2010 | October 2010 | About 300 |
| MT | 51.7 | End of 2010 | No pilot survey | - |
| NL | 48.8 | : | : | : |
| AT | 24.7 | Q1 2011 | Test of changes in the questions on hours worked finalized in Nov. 2008 | 151 persons |
| PL | 39.7 | Q1 2011 | No pilot survey | - |
| PT | 48.4 | Q1 2011 | From 3rd quarter 2009 to 2nd quarter 2010 | Around 40 000 individuals by quarter |
| RO | 27.4 | August 2010 | : | : |
| SI | 54.6 | January 2010 | No pilot survey | - |
| SK | 40.4 | July 2005 | 1992 | |
| FI | 3.9 | February 2011 | : | : |
| SE | 2.9 | January 2010 | March and June 2004. | 1400 |
| UK ⁽²⁾ | 34.4 | January 2011 | August 2010 | 800 households sampled for the Dress Rehearsal. Achieved sample = 520 households. |
| IS ⁽²⁾ | 2.3 | : | November and December 2002 | : |
| NO | 14.0 | Q1 2006 | No pilot survey | - |
| CH | 1.9 | March 2010 | December 2009 | Around 100 |
| HR | 44.2 | 2007 | No pilot survey | - |
| MK | 46.9 | October 2008 | No pilot survey | - |
| TR | 41.9 | July 2005 | 2003 | Around 100 households |

(¹) 15-74 years respondents; (²) 16-74 years respondents

Notes: (-) indicates that the item is not applicable and (:.) indicates that information is not provided. *Blank* indicates that information is not available to NSI.

Source: EU-LFS Standard Quality Report

Processing errors

Between data collection and the beginning of statistical analysis for the production of statistics, data must undergo a certain processing: coding, data entry, data editing, imputation, etc. Errors introduced at these stages are called *processing errors*. No estimates can be produced indicating the rate of processing errors in the EU-LFS.

Non-response errors

Non-response is the failure of a survey to collect data on all survey variables, from all the population units designated for data collection in a sample or complete enumeration. The difference between the statistics computed from the collected data and those that would be computed if there were no missing values is the *non-response error*.

Tables 4.5 to 4.7 do show non-response rates, but they are not fully comparable. Most of the countries calculate non-response on the basis of the household unit, except Denmark, Finland, Sweden, Iceland, Norway and Switzerland, which calculate non-response on person basis. The treatment of non-response in the follow-up waves is also different between countries. Some participating countries do not take previous non-response into account when calculating the non-response in later waves, whereas others do. Thus the former countries may show lower non-response rates on the average than the latter.

Table 4.5 Rates of non-response by wave. Annual average 2011

| | Waves | | | | | | | |
|-------------------|-------|------|------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| BE | 32.6 | | | | | | | |
| BG | 28.1 | 20.0 | 17.7 | 14.8 | | | | |
| CZ | 21.3 | 19.2 | 18.8 | 18.8 | 18.9 | | | |
| DK | 40.5 | 38.9 | 35.2 | 32.7 | | | | |
| DE ⁽¹⁾ | : | | | | | | | |
| EE | 46.6 | 42.4 | 25.0 | 27.4 | | | | |
| IE | 23.1 | 19.4 | 19.0 | 19.7 | 20.3 | | | |
| EL | 21.4 | 19.9 | 18.3 | 17.2 | 15.8 | 15.5 | | |
| ES | 16.5 | 14.1 | 14.1 | 13.8 | 14.4 | 14.9 | | |
| FR | 17.7 | 17.0 | 16.0 | 15.7 | 16.0 | 15.6 | | |
| IT | 25.7 | 5.8 | 5.2 | 3.5 | | | | |
| CY | 2.4 | 3.2 | 3.7 | 3.8 | 4.3 | 4.4 | | |
| LV | 35.8 | 32.5 | 33.7 | 31.0 | | | | |
| LT | 23.7 | 18.1 | 15.5 | 14.2 | | | | |
| LU | 67.3 | | | | | | | |
| HU | 29.4 | 22.0 | 13.7 | 10.4 | 8.4 | 7.7 | | |
| MT | 23.1 | 34.4 | 33.1 | 32.7 | | | | |
| NL ⁽²⁾ | 45.6 | 15.9 | 11.9 | 5.9 | 4.4 | | | |
| AT | 4.7 | 7.1 | 7.2 | 7.8 | 7.8 | | | |
| PL | 26.6 | 23.1 | 24.4 | 23.3 | | | | |
| PT | 11.1 | 16.3 | 17.3 | 20.2 | 20.7 | 20.0 | | |
| RO | 9.4 | 7.4 | 5.9 | 5.5 | | | | |
| SI ⁽³⁾ | 32.1 | 24.0 | 15.2 | 14.3 | 8.5 | | | |
| SK | 12.6 | : | : | : | : | | | |
| FI | 24.4 | 23.1 | 23.5 | 23.8 | 24.9 | | | |
| SE | 29.3 | 25.5 | 25.5 | 25.3 | 25.6 | 25.2 | 24.9 | 22.2 |
| UK | 38.1 | 32.7 | 36.9 | 39.8 | 41.9 | | | |
| IS | 15.4 | 15.7 | 17.3 | 16.8 | 17.1 | | | |
| NO | 23.0 | 17.0 | 15.0 | 14.0 | 15.0 | 14.0 | 14.0 | 13.0 |
| CH | 31.3 | 6.8 | 8.1 | 3.8 | | | | |
| HR | : | : | : | : | | | | |
| MK | 19.7 | 20.0 | 16.6 | 18.4 | | | | |
| TR | 14.5 | 12.1 | 13.0 | 12.3 | | | | |

⁽¹⁾ Survey waves are on annual basis.

⁽²⁾ Households in the first wave, thereafter persons.

⁽³⁾ Conditional non-response in waves 2-5. The non-respondents from previous waves are excluded from the sample in subsequent waves (waves 2-5)

Note: (:) indicates that information is not available.

Source: EU-LFS Standard Quality Report

Table 4.6 Rates of non-response by survey mode. Annual average 2011

| | CAPI | CATI | PAPI | POSTAL |
|----|------|------|------|--------|
| BE | : | | | |
| BG | | | 20.1 | |
| CZ | 19.4 | | | |
| DK | | 48.5 | | |
| DE | : | : | | : |
| EE | 37.5 | | | |
| IE | 20.3 | | | |
| EL | | | : | |
| ES | 26.9 | 9.0 | | |
| FR | 16.7 | 16.2 | | |
| IT | 19.6 | 6.5 | | |
| CY | 2.4 | 3.9 | | |
| LV | 35.9 | 9.1 | | |
| LT | : | : | | |
| LU | | 67.3 | | |
| HU | | : | : | |
| MT | | 33.6 | 23.1 | |
| NL | 44.2 | 17.1 | | |
| AT | : | : | | |
| PL | : | : | : | |
| PT | 18.9 | 17.0 | | |
| RO | | | 7.0 | |
| SI | 28.7 | 17.3 | | |
| SK | : | | : | |
| FI | | 23.9 | | |
| SE | | 25.4 | | |
| UK | : | : | | |
| IS | | 16.5 | | |
| NO | | 16.6 | | |
| CH | | 15.1 | | |
| HR | | | 24.4 | |
| MK | | | 15.6 | |
| TR | 13.0 | | | |

Note: (-) indicates that information is not provided.

Blank indicates that that survey mode is not in use in that country.

Source: EU-LFS Standard Quality Report

Table 4.7 Total and reason-specific non-response rates. Annual average 2011 (%)

| | Non response rate | Refusals | Non-contacts | Other reasons |
|-------------------|-------------------|----------|--------------|---------------|
| BE | 32.6 | 3.3 | 9.4 | 19.8 |
| BG | 20.1 | 5.3 | 13.5 | 1.3 |
| CZ | 19.4 | 15.5 | 3.5 | 0.3 |
| DK | 48.5 | 20.9 | 9.7 | 17.6 |
| DE | 2.1 | : | : | : |
| EE | 37.5 | 15.9 | 20.2 | 1.5 |
| IE | 20.3 | 5.3 | 5.7 | 9.2 |
| EL | 18.0 | 4.5 | 4.4 | 9.1 |
| ES ⁽¹⁾ | 16.5 | 6.6 | 10.0 | 0.0 |
| FR | 16.0 | 3.8 | 8.0 | 4.3 |
| IT | 11.1 | 3.4 | 5.7 | 2.0 |
| CY | 3.7 | 2.9 | 0.5 | 0.3 |
| LV | 33.3 | 12.5 | 17.9 | 2.8 |
| LT | 16.2 | 4.2 | 4.6 | 7.4 |
| LU | 67.3 | 38.5 | 28.5 | 0.3 |
| HU | 15.2 | 5.4 | 9.0 | 0.9 |
| MT | 30.8 | 1.9 | 28.8 | 0.0 |
| NL | 21.8 | 8.4 | 8.5 | 4.9 |
| AT | 7.3 | 0.4 | 6.9 | 0.0 |
| PL | 24.4 | 14.4 | 7.5 | 2.5 |
| PT | 17.6 | 2.3 | 11.0 | 4.3 |
| RO | 7.0 | 1.6 | 2.8 | 2.8 |
| SI | 21.7 | 14.0 | 2.1 | 5.9 |
| SK | 6.9 | 4.9 | 0.5 | 1.4 |
| FI | 23.9 | 15.7 | 7.9 | 0.3 |
| SE | 25.4 | 11.7 | 12.8 | 0.9 |
| UK | 38.1 | 26.0 | 12.1 | 0.0 |
| IS | 16.5 | 7.0 | 7.2 | 2.3 |
| NO | 16.6 | 2.3 | 10.9 | 2.5 |
| CH | 15.1 | 1.8 | 6.0 | 7.3 |
| HR | 24.4 | 12.7 | 2.8 | 8.8 |
| MK | 15.6 | 6.9 | 6.6 | 2.1 |
| TR | 13.0 | 0.2 | 8.2 | 4.6 |

(¹) Rates are calculated for the first interview.

Note: (:) indicates that information is not provided.

Source: EU-LFS Standard Quality Report

5 Timeliness and punctuality

The *timeliness* of statistical outputs is the length of time between the event or phenomenon they describe and their availability.

Punctuality is the time lag between the release date of data and the target date on which they were scheduled for release as announced in an official release calendar, laid down by Regulations or previously agreed among partners.

According to Council Regulation (EC) No 577/98 data shall be delivered to Eurostat within twelve weeks from the end of a reference quarter. Table 5.1 shows that data are transmitted to Eurostat for most countries in the third month after the end of the quarter. First national releases of data in the majority of the participating countries are in the first two months after the end of the quarter.

A release calendar for the EU-LFS main indicators is in place, foreseeing the release of the main indicators four weeks after the data delivery deadline. In addition Eurostat continually updates the Eurostat online database with new data after final data processing in Eurostat. Timeliness and punctuality of the transmission to Eurostat and Eurostat's dissemination of the national data have further improved in 2011.

Table 5.1 First release nationally, transmission to Eurostat and Eurostat's dissemination of LFS data by number of calendar days from the end of the reference period 2011 – quarterly LFS data (results)

| Number of calendar days from end of reference period | Number of countries | | | |
|---|---------------------|-----------|-----------|-----------|
| | 2010 | 2011 | | |
| | All | All | EU-27 | Euro area |
| First release nationally | | | | |
| <31 | 4 | 4 | 4 | 2 |
| 31-60 | 10 | 12 | 10 | 4 |
| 61-90 | 8 | 7 | 5 | 3 |
| 91+ | 6 | 4 | 3 | 3 |
| Annual only or no publication (*) | 2 | 2 | 2 | 2 |
| Not known | 3 | 4 | 3 | 2 |
| Total | 33 | 33 | 27 | 16 |
| <i>Average number of calendar days</i> | 68 | 63 | 61 | 69 |
| Transmission to Eurostat | | | | |
| <31 | 1 | 1 | 1 | 1 |
| 31-60 | 7 | 7 | 5 | 2 |
| 61-90 | 23 | 23 | 21 | 13 |
| 91+ | 2 | 2 | 0 | 0 |
| Total | 33 | 33 | 27 | 16 |
| <i>Average number of calendar days</i> | 72 | 69 | 67 | 69 |
| Eurostat's dissemination of national data (web site) | | | | |
| <31 | 0 | 0 | 0 | 0 |
| 31-60 | 5 | 5 | 5 | 2 |
| 61-90 | 22 | 20 | 17 | 10 |
| 91+ | 6 | 8 | 5 | 4 |
| Total | 33 | 33 | 27 | 16 |
| <i>Average number of calendar days</i> | 82 | 80 | 79 | 80 |

(*) Luxembourg and Germany

Source: EU-LFS Standard Quality Report

6 Accessibility and clarity

Accessibility and clarity refer to the simplicity and ease with which users can access statistics, with the appropriate user information and assistance: a global context which finally enables them to make optimum use of the statistics.

In 2011 Eurostat published quarterly and annual results as well as an analysis of indicators to supplement the unemployment rate in its series *Statistics in Focus*.

Eurostat also publishes annually a compendium describing the main characteristics of the national surveys.

The Eurostat public website is free of charge and includes main indicators, derived from the Labour Force Survey, as well as detailed, constantly updated main results from the EU-LFS. All data on the website are supplemented by meta-data in Euro SDMX Metadata Structure (ESMS), giving basic information on the background and a summary of the methodology. More detailed information can be found at the dedicated [EU-LFS web page](#) and at the [EU-LFS \(Statistics Explained\)](#).

Through direct queries, customized tabulations of EU-LFS results are available to users in electronic format. Eurostat extracts around 1500 direct queries each year. These data are also produced free of charge.

Since 2011 researchers can get anonymised datasets containing microdata free of charge if certain conditions are fulfilled. Data from all Member States and from Iceland, Norway and Switzerland are available in this format. In 2011 around 100 researchers or research groups worked with EU-LFS microdata (new contracts and amendments).

7 Comparability

Comparability refers to statistical outputs comprising the same data items (say employment data) but for different reference periods, regions or domains, where the aim is to combine them to make comparisons over time, or across regions, or across domains. It can be said that it is the extent to which differences between statistics are attributed to differences between the true values of the statistical characteristics.

7.1 Comparability over time

Table 7.1 summarizes the situation as regards the availability of quarterly microdata and the uniform spreading of the sample over the whole year.

Table 7.1 Availability of micro-data from the EU-LFS(*)

| | Quarter 2 micro-data from: | Quarterly micro-data from: | Sample evenly spread over reference weeks from: | Remarks |
|----|----------------------------|----------------------------|---|---|
| BE | 1983 | 1999 | 1999 | 1983-1998: one week in the second quarter |
| BG | 2000 | 2000 | 2003 | 2000-2002: one week per quarter 2003-2007: uniformly spread over the first 12 weeks of each quarter 2008+: uniformly spread over all the 13 weeks of each quarter |
| CZ | 1997 | 1998 | 1997 | 1997: seasonal quarters 2 and 4 |
| DK | 1983 | 1999 | 1994 | 1992-1993: more than one week spread unevenly over 1st and 2nd quarter |
| DE | 1983 | 2005 | 2005 | 1983-2004: one week in the 2nd quarter |
| EE | 1997 | 2000 | 2000 | 1997-1999: all weeks in 2nd quarter not uniformly spread |
| EL | 1983 | 1998 | 1996 | 1992-1995: all weeks in 2nd quarter not uniformly spread |
| ES | 1986 | 1996 | 1999 | 1996-1998: evenly spread with the exception of 4 weeks in August (not surveyed due to interviewers' holidays) |
| FR | 1983 | 2003 | 2003 | 1983-2002: survey conducted in the first quarter of the year 1992-2002: more than one week, but not uniformly spread in one quarter |
| IE | 1983 | 1999 | 1998 | 1992-1997: more than one week, but not uniformly spread in one quarter 1999: quarterly data from 2 nd q onwards. 1998-2008: seasonal quarters |
| IT | 1983 | 1997 | 2004 | 1983-2003: one week per quarter 1997: quarterly data from 2 nd q onwards. |
| CY | 1999 | 2004 | 1999 | 2004: quarterly data from 2 nd q onwards. |
| LV | 1998 | 2002 | 2002 | 1998-2001: all weeks in 2nd and 4th quarter not uniformly spread (semi-annual results) |
| LT | 1998 | 2002 | 2002 | 1998-2001: one week in 2nd and 4th quarter each (semi-annual results) 2002q1-q2: one week per quarter, after that uniformly spread |
| LU | 1983 | 2007 | 2003 | 1983-2002: one week per quarter 2003-2006: all weeks of the year, but not uniformly spread, quarterly breakdowns not available. |
| HU | 1996 | 1999 | 2003 | 1999-2002: one week per month 2003-2005: 3 weeks per month not uniformly spread 2006+: all weeks surveyed, nearly uniformly spread |
| MT | 2000 | 2002 | 2004 | 2000-2003: one week per quarter |
| NL | 1987 | 2000 | 2000 | 1987-1999: 1st to 22nd/23rd week surveyed, not uniformly spread 2000+: all weeks surveyed, not uniformly spread |
| AT | 1995 | 2003 | 2004 | 1995-2003: more than one week at the end of the quarter, not uniformly spread 1995-2002: 1st quarter |

| | Quarter 2 micro-data from: | Quarterly micro-data from: | Sample evenly spread over reference weeks from: | Remarks |
|----|----------------------------------|----------------------------------|--|--|
| | | | | 2003: quarterly micro-data 2004+: quarterly micro-data, continuous survey |
| PL | 1997 | 2000 | 2000 | |
| PT | 1986 | 1996 | 1998 | 1986-1991: one week in 1 st and 2 nd quarter. 1996: quarterly data from 2 nd q onwards. 1992-1997: more than one week per quarter, not uniformly spread |
| RO | 1997 | 1999 | 1998 | 1998-2004: most or all weeks of the quarter, not evenly spread 2005: uniformly spread over any 12 weeks of each quarter 2006+: uniformly spread over all weeks of each quarter |
| SI | 1996 | 1999 | 2002 | 1996-2005: all or most weeks surveyed, not uniformly spread. From 1996 to 2001, in the Eurostat files all records of a quarter attributed to a single week 2006+: all weeks surveyed, nearly uniformly spread |
| SK | 1998 | 1998 | 1998 | 1998-1999: seasonal quarters |
| FI | 1995 | 1998 | 2000 | 1995-1998: 'spring data' = March, April, and May; one reference week per month 1998-1999: quarterly data one reference week per month 2000+: quarterly data. Continuous survey. Evenly spread over the weeks of the month, months of each quarter have 4-4-5 weeks |
| SE | 1995 | 2001 | 1999 | 1995-1998: uniformly spread over 4 weeks of the second quarter (weeks 14 to 17) |
| UK | 1983 | 1999 | 1992 | 1992-2006: seasonal quarters 1999: quarterly data from 2 nd q onwards. |
| IS | 1995 | 2003 | 2003 | 1995-2002: one week per quarter |
| NO | 1995 | 2000 | 1996 | 1995: one week per month |
| CH | 1996 | 2010 | 2010 | 1995-2009: an annual survey was carried out in the 2 nd q; all or most weeks surveyed, not uniformly spread |
| HR | 2002 | 2007 | 2007 | 2002-2006: half-year results; one reference week per month |
| MK | - | 2006 | 2006 | |
| TR | - | 2006 | - | only one week per month covered |

(*) The table reflects the actual data availability in the databases of Eurostat in February 2013. National surveys may, e.g., have started producing quarterly results while only spring results were delivered to Eurostat.
Source: EU-LFS Standard Quality Report

Every year, a certain number of changes are introduced in some national LFSs, to take into account changes introduced at European level, to better align the national surveys to the already existing EU regulations or methodological guidelines, or to take into consideration national needs. These changes can concern the conceptual level (i.e. concepts and definitions used by the LFS, the survey coverage, i.e. the target population, the legislation, the classifications used, the geographical boundaries) or the measurement level (i.e. the sampling frame, the sample design, the rotation pattern, the questionnaire, the instructions to interviewers, the survey modes, the weighting scheme, the use of auxiliary information).

The International standard classification of occupations (ISCO) developed by the International Labour Organisation is used to measure the occupational status of employed persons. The LFS uses ISCO on 4 digit level for the main job and on 3 digit level for the previous occupation (the last digit being voluntary in both cases). The classification was last revised in 2008 (ISCO 08) and introduced in the LFS 2011. With the exception of Turkey all countries used in 2011 the revised classification. Table 7.2 reports the changes to the national labour force surveys introduced in 2011 by the participating countries. Such changes normally may introduce some discontinuity in the time-series.

Table 7.2 Improvements or changes compared to previous year

| Change | | Impact of the changes on the statistics |
|--|--|--|
| Changes to sampling frame, sample design or target population | | |
| BE | Change to almost 100% CAPI in Q2 2011 | |
| FR | A new sampling frame is used to increase the size of the sample. | |
| PT | In the 1st quarter of 2011 was began a new LFS serie data based upon a new data collection mode, which comprises mainly the use of telephone interviews, a change in the questionnaire, and the adoption of new filed work supervision technologies. The new data mode is a mixed mode (CAPI and CATI mode): the first interview is done face-to-face by an interviewer visiting the household (CAPI mode); the other five interviews are done by telephone (CATI mode) if the household agrees and provides a valid telephone number, fix or mobile - otherwise, interviews are done face-to-face), which replaces the collection mode in use until the 4th quarter of 2010 (where all interviews were done face-to-face). The remaining LFS characteristics remain unchanged, namely its objectives, periodicity, sample, rotation pattern, classifications, concepts and active population reference age. | In view of these changes, from 2011 onward the results are not comparable with the results for the previous series. |
| SI | The definition on farmers was applied (according to the revised methodological explanations) | |
| SK | Implementing of new CAPI mode | |
| Changes to questionnaire or national explanatory notes | | |
| BE | Change of the question about 'seekwork' to take into account the reference period. | |
| LV | Improvement of wording of some questions and concretization of reference period in several questions. Improvement of instructions for interviewers. | |
| MK | Several questions with intention to improve the data , and to collect more information from the surveyed persons were added; more explanations for the interviewers were added. | |
| AT | In Q1 2011 an additional national variable for persons who want to work more hours but not possible within 2 weeks: Reason why not (codes 1-6) | |
| PL | Since the first quarter of 2011, for TEMPREAS variable, national code of the reason for work for limited time "for other reasons" was removed, therefore the variable is fully harmonized with the Eurostat requirement. | |
| PT | Significant changes in the questionnaire in order to adapt it to telephone interviews introduced in the 1st quarter of 2011: <ul style="list-style-type: none"> • Questionnaire simplification (rationalization, only the mandatory subjects were covered; split of questions into a set of simpler questions in order to reduce the respondents' effort; language simplification to be more efficient to verbal communication). • Questionnaire standardization (transformation the questionnaire into a structured interview with a guide format, everybody does the same). • Questionnaire organization (questions were organized by contents and temporal sequence for the respondents). | In view of these changes, from 2011 onwards the results are not comparable with the results for the previous series. |
| SK | Improvement of wording in variables and description and accuracy of filters. | |
| BG | The questions on core variable NEEDCARE (3 in Bulgarian LFS) which were moved from the main LFS questionnaire to 2010 ad hoc questionnaire were restored in the core questionnaire. Few questions aimed to identify the employment in agriculture were included in LFS questionnaire following the Eurostat explanatory notes for 2011 onwards | |
| DE | Increase of number of employed persons (due to change of leading questions on employment) | |
| RO | New sequence of question was used for persons working in agriculture (self-employed and contributing family members). | |
| MT | Changes in questionnaire in Q1 2011 to collect education variables. | |
| UK | Due to changes to the education section, questions which feed into the derived variables HATLEVEL and HATFIELD have changed to incorporate further options. | |
| Changes to weighting schemes | | |
| DK | The weighting scheme was updated and the precision increased. | |
| Other changes | | |
| MK | More explanations for the interviewers were added. | |
| PT | Increase in the accuracy of the concepts measurement through the full adoption of the Labour Force Survey Revised Explanatory Notes 2011 | |

Source: EU-LFS Standard Quality Report

7.2 Comparability over space

A common framework regulation⁽¹⁰⁾, common variable definition⁽¹¹⁾, common explanatory notes⁽¹²⁾ and common regulation⁽¹³⁾ regarding the definition of unemployment and the twelve principles of questionnaire construction go a long way to ensure comparability of the statistics between the participating countries. This is, however, mainly true for the main characteristics, employment and unemployment where particular definitions and sequence of questions are part of the EU legislation. For other variables, each country has the responsibility to ensure that the national survey provides data that are compatible with the EU definitions and of the same quality.

As most of the variables are defined in accordance with recommendations of the International Labour Organisation (ILO) and other international organizations, the main statistics from the EU-LFS are directly comparable to those of other industrialized countries, especially those of the other members of the OECD.

Over the last years, Eurostat has commissioned several reports to examine the degree to which the participating countries adhere to the common set of definitions. The most recent study of this kind was carried out on the 2008 questionnaires. As a general conclusion it emerges that, in spite of the progress regarding the adherence to the EU regulations, principles and guidelines (i.e. the explanatory notes), the national questionnaires still largely differ even in the collection of key variables such as WSTATOR (*Labour status in the reference week*). Hence, even if labour market statistics are subject to quite comprehensive international definitions, principles and guidelines, which make it one of the most harmonised statistical domains not only in Europe but worldwide, there is still room for further improvement of cross-country comparability⁽¹⁴⁾.

This applies also to the variable INCDECIL on income deciles, which was introduced as mandatory in 2009. At present, the comparability of this variable is still low, which is due to several elements: some countries ask information on monthly pay directly to the interviewees, while others retrieve it from national registers. Some countries ask the exact amounts while other ones collect the information in earning bands. Some countries define the deciles based on external sources, while others do it on the basis of the collected data. Some countries collect net, others gross income. Finally, the treatment of bonuses, allowances and fringe benefits is likely not fully homogeneous across countries. Work is on-going to reduce these disparities and improve the comparability of the variable. The dissemination of INCDECIL is pending on a quality assessment of the results by Eurostat.

8 Coherence

The coherence of two or more statistical outputs refers to the degree to which the statistical processes by which they were generated used the same concepts - classifications, definitions, and target populations – and harmonized methods. Coherent statistical outputs have the potential to be validly combined and used jointly. It is, however, generally easier to show cases of incoherence than to prove coherence. The following sections assess coherence with similar data from two other sources, the population statistics and the

⁽¹⁰⁾ Council Regulation (EC) No 577/98.

⁽¹¹⁾ Commission Regulation (EC) No 377/2008.

⁽¹²⁾ EU Labour Force Survey Explanatory Notes, available at:

http://epp.eurostat.ec.europa.eu/portal/page/portal/employment_unemployment_lfs/publications/methods

⁽¹³⁾ Commission Regulation (EC) No 1897/2000.

⁽¹⁴⁾ A Task Force coordinated by Eurostat is currently working to identify shortcomings and propose possible improvements for the cross-country comparability of the national Labour Force Surveys in the EU.

employment data from national accounts. Other comparisons are possible, such as with employment data from the Structural Business Statistics and the Labour Cost Survey.

8.1 Coherence with population statistics

The coherence with population statistics is of importance for the users, as often the most recent population estimates are available from the EU-LFS statistics. These two statistics are, however, not fully comparable.

Differences that need to be considered are:

- The EU-LFS statistics cover only the population in private households, while population statistics cover the whole population, including those living in collective households (e.g. conscripts).
- Sometimes the rules for defining the usual resident population differ in the LFS from the rules in population statistics.
- Population statistics usually refer to particular dates, e.g. 1st January or mid-year for population level and characteristics. The EU-LFS statistics generally refer to the average quarterly or annual situation.

Table 8.1 Coherence with population statistics 2011

| | Population 15-64 1/1/2011 | | | LFS annual average 15-64 2011 | | | Relative difference [(L-P)/P*100] | | |
|-------------------|------------------------------|------------------|------------------|----------------------------------|------------------|------------------|--------------------------------------|-------------|-------------|
| | Total | Men | Women | Total | Men | Women | Total | Men | Women |
| EU-27 | 334 644.1 | 167 504.9 | 167 139.3 | 331 209.9 | 165 224.2 | 165 985.8 | -1.0 | -1.4 | -0.7 |
| BE | 7 250.2 | 3 650.4 | 3 599.8 | 7 219.6 | 3 627.9 | 3 591.7 | -0.4 | -0.6 | -0.2 |
| BG | 5 033.8 | 2 533.7 | 2 500.1 | 4 969.6 | 2 476.4 | 2 493.2 | -1.3 | -2.3 | -0.3 |
| CZ | 7 328.0 | 3 706.0 | 3 622.0 | 7 345.0 | 3 714.2 | 3 630.8 | 0.2 | 0.2 | 0.2 |
| DK | 3 631.8 | 1 830.1 | 1 801.7 | 3 613.3 | 1 819.9 | 1 793.4 | -0.5 | -0.6 | -0.5 |
| DE | 53 966.1 | 27 299.5 | 26 666.6 | 53 728.7 | 27 056.7 | 26 672.0 | -0.4 | -0.9 | 0.0 |
| EE | 906.4 | 436.9 | 469.5 | 902.9 | 434.0 | 468.9 | -0.4 | -0.7 | -0.1 |
| IE | 3 070.5 | 1 531.3 | 1 539.1 | 3 063.6 | 1 526.7 | 1 536.9 | -0.2 | -0.3 | -0.1 |
| EL | 7 505.3 | 3 800.6 | 3 704.8 | 7 229.7 | 3 625.9 | 3 603.8 | -3.7 | -4.6 | -2.7 |
| ES | 31 310.0 | 15 787.1 | 15 523.0 | 31 127.1 | 15 664.2 | 15 462.9 | -0.6 | -0.8 | -0.4 |
| FR ^(*) | 40 852.1 | 20 220.5 | 20 631.6 | 40 056.6 | 19 692.8 | 20 363.8 | -1.9 | -2.6 | -1.3 |
| IT | 39 811.7 | 19 844.8 | 19 966.8 | 39 658.5 | 19 754.5 | 19 904.0 | -0.4 | -0.5 | -0.3 |
| CY | 591.9 | 287.7 | 304.3 | 571.3 | 271.9 | 299.4 | -3.5 | -5.5 | -1.6 |
| LV | 1 398.9 | 674.0 | 724.9 | 1 382.1 | 662.1 | 720.0 | -1.2 | -1.8 | -0.7 |
| LT | 2 052.9 | 989.6 | 1 063.3 | 2 036.5 | 981.4 | 1 055.0 | -0.8 | -0.8 | -0.8 |
| LU | 350.7 | 178.1 | 172.6 | 344.3 | 174.5 | 169.8 | -1.8 | -2.0 | -1.6 |
| HU | 6 857.4 | 3 384.8 | 3 472.5 | 6 770.2 | 3 331.2 | 3 439.0 | -1.3 | -1.6 | -1.0 |
| MT | 289.1 | 147.0 | 142.0 | 288.9 | 147.0 | 141.9 | -0.1 | 0.0 | -0.1 |
| NL | 11 153.8 | 5 615.6 | 5 538.1 | 10 993.9 | 5 516.8 | 5 477.1 | -1.4 | -1.8 | -1.1 |
| AT | 5 689.4 | 2 846.2 | 2 843.1 | 5 643.5 | 2 806.6 | 2 836.9 | -0.8 | -1.4 | -0.2 |
| PL | 27 483.7 | 13 690.6 | 13 793.1 | 26 618.3 | 13 174.1 | 13 444.2 | -3.1 | -3.8 | -2.5 |
| PT | 6 981.4 | 3 402.8 | 3 578.6 | 7 096.6 | 3 518.0 | 3 578.6 | 1.7 | 3.4 | 0.0 |
| RO | 14 988.9 | 7 476.1 | 7 512.9 | 14 967.5 | 7 465.5 | 7 502.0 | -0.1 | -0.1 | -0.1 |
| SI | 1 420.4 | 730.7 | 689.7 | 1 420.5 | 730.5 | 690.0 | 0.0 | 0.0 | 0.0 |
| SK | 3 882.4 | 1 943.8 | 1 938.7 | 3 931.8 | 1 965.2 | 1 966.7 | 1.3 | 1.1 | 1.4 |
| FI | 3 546.6 | 1 793.1 | 1 753.5 | 3 518.3 | 1 769.6 | 1 748.7 | -0.8 | -1.3 | -0.3 |
| SE | 6 113.4 | 3 106.8 | 3 006.6 | 6 113.0 | 3 106.8 | 3 006.2 | 0.0 | 0.0 | 0.0 |
| UK | 41 177.5 | 20 597.3 | 20 580.3 | 40 598.6 | 20 209.8 | 20 388.9 | -1.4 | -1.9 | -0.9 |

| | Population 15-64 1/1/2011 | | | LFS annual average 15-64 2011 | | | Relative difference [(L-P)/P*100] | | |
|----|------------------------------|----------|----------|----------------------------------|----------|----------|--------------------------------------|------|-------|
| | Total | Men | Women | Total | Men | Women | Total | Men | Women |
| IS | 212.7 | 108.0 | 104.7 | 202.9 | 102.4 | 100.5 | -4.6 | -5.2 | -4.0 |
| NO | 3 256.4 | 1 662.9 | 1 593.5 | 3 268.3 | 1 668.3 | 1 600.0 | 0.4 | 0.3 | 0.4 |
| CH | 5 349.6 | 2 694.6 | 2 655.0 | 5 334.2 | 2 685.0 | 2 649.2 | -0.3 | -0.4 | -0.2 |
| HR | 2 973.4 | 1 485.1 | 1 488.3 | 2 746.1 | 1 355.2 | 1 390.8 | -7.6 | -8.7 | -6.6 |
| MK | 1 456.8 | 738.1 | 718.7 | 1 454.7 | 736.9 | 717.8 | -0.1 | -0.2 | -0.1 |
| TR | 49 516.7 | 25 020.9 | 24 495.8 | 48 431.4 | 24 078.2 | 24 353.2 | -2.2 | -3.8 | -0.6 |

(*) Not including the overseas departments of France.

Source: Eurostat (online data codes: [demo_pjan](#) and [lfsa_pganws](#)), 1 February 2013 (extracted).

Moreover, most of the participating countries carried out a population census in the 2001 round. New censuses often result in new weights, new sample frames or new sample designs. By 2004 all of the participating countries had revised the weights to reflect new population estimates. Re-weighting of previous data series have, however, not always been implemented. Most countries conducted a new population census in 2011. The results of the 2011 census will lead to a retrospective revision of the weights in some countries.

8.2 Coherence with other employment estimates

Coherence of employment for LFS and National Accounts

Key concepts used in National Accounts, such as domestic employment, have no correspondence in the EU-LFS, which uses instead number of persons employed based on residency within the national border (national employment). There are also differences in coverage, where the EU-LFS covers the age groups 15 and older in private households only, while the national accounts cover all persons regardless of age or type of residence. In addition, the EU-LFS doesn't consider conscripts and unpaid trainees as employed whereas these are explicitly or implicitly accounted for in the National Accounts. The reference period for the measurement could also contribute to some differences. The LFS estimates represent one average of all the weeks in the year (for annual results) or the quarter (for quarterly results). National Accounts stock estimates refer to the mid of the year (for annual accounts) or mid of the quarter (for quarterly accounts).

As expected, the employment estimates based on the LFS data usually lie somewhat below the estimates of employment as estimated by National Accounts. This emerges from table 8.2, where the data are grouped on the basis of the importance of the LFS in the production of the National accounts data. For three countries, however, the opposite is true.

Admittedly the coverage, measurement and conceptual differences mentioned above only account for a relatively small part of the difference between the two estimates. As a rule of thumb, relative differences higher than 1.5 % need to be explained by other reasons. This would concern twelve participating countries as shown in table 8.2. Germany, France and Italy are responsible for the bulk of the absolute difference between the National Accounts employment estimates and the LFS employment, while in relative terms Lithuania, Bulgaria, Greece, France, and Italy, the former Yugoslav Republic of Macedonia show the highest discrepancies, with a distance of more than 5.0%⁽¹⁵⁾. The difference for Lithuania can be attributed to the recalculation of the LFS population figures based on the 2011 Population and Housing Census while the National accounts figures were not recalculated. When comparing data from LFS and National Account, users are also interested in whether

⁽¹⁵⁾ Data for the former Yugoslav Republic of Macedonia, which usually shows also a relative large gap between LFS and NA data, are not available for 2011; no data is available for Turkey.

the two sources show the same trend or not, i.e. change from one period to another. Table 8.2 also compares the data on employment growth in 2011. The results show that both sources are broadly comparable as regards the direction of the employment growth for the EU-27 and that the differences are mostly marked in the size of the growth figures.

The reasons for the disparities, either in levels or in the direction of the employment growth are not fully known. In general, the actual sources of incoherence are quite diverse across countries. The issue of incoherence between the LFS and National Accounts employment estimates has been addressed by a Eurostat-coordinated Task Force on the Quality of the Labour Force Survey. By the use of reconciliation tables, a range of potential sources of incoherence on the LFS side was identified, either related to a biased measurement of specific areas of employment, such as marginal employment, employment in black labour activities, employment in private households, illegal immigrants, or emerging from data collection, as in the case of non-response and proxy interviews. National Accounts combines data from all available data sources in the country. This method allows better average of the non-observed economy. For this reason, National Accounts estimates are frequently higher than LFS employment estimates. In addition, it can be pointed out that LFS estimates are subject to sampling error, both with regard to levels and changes between periods (cf. tables 4.1 and 4.2). When changes between periods are small, this may result in diverging trends between the National Accounts' and the LFS' figures, just because for the LFS the changes are within the margin of error. As regards National Accounts, some indicative reasons for incoherence can be mentioned: National Accounts may use sources different than LFS (or LFS combined with other sources) to estimate employment; National Accounts may introduce adjustments to reach consistency between the employment reported by its sources and other related variables, like salaries or production; the national accounts approach, by comparing and combining different sources, is also more prone than LFS to identify and address underreporting or systematic biases. All in all, national accounts are judged more suitable to measure employment levels, employment growth and industry breakdowns. LFS is more adequate to measure participation in the labour market (i.e. employment rates, activity rates, etc.), or to analyse the situation of specific socio-economic groups of the population (e.g. by age, gender or educational level).

Coherence of employment for LFS and Business Statistics

Business statistics, whether structural business statistics (SBS) or short-term business statistics (STS), are focused on production-related variables like output, turnover or value added, but they also produce some estimates of employment. These estimates may be and frequently are different from LFS. The main reasons for the differences are:

- *Different scope*: business surveys gather information on production units operating in the territory whereas LFS gathers information on people living in the country. Cross-border workers, or seasonal workers, are correspondingly recorded in different countries.
- *Different coverage*: the LFS does not collect information for people living in collective households (business statistics do not exclude the information). The LFS covers all economic activities and all firm sizes, whereas business statistics typically do not gather information on agriculture, Government or some service activities. In addition, business registers used to compile business statistics may not include small enterprises below a certain threshold or may leave out employment not included in the payroll or in the accounting books such as family workers.

- *Different units*: business surveys estimate the number of jobs whereas LFS counts jobholders. Business surveys rarely have access to jobholders' features like age, gender, etc. for which LFS is the only source.

Table 8.2 Employment (national concept) 2011 in two different datasets on the Eurostat website. Levels and growth rates

| | 2011 levels | | | | 2010-2011 growth rates | | |
|---|-----------------------------|---------------------------|----------------|------------------------|--|--------------------------------------|-------------|
| | Labour force survey (x1000) | National accounts (x1000) | LFS-NA (x1000) | (LFS - NA)/NA *100 (%) | Labour force survey ⁽¹⁾ (%) | National accounts ⁽²⁾ (%) | LFS-NA p.p. |
| 1 Countries using LFS as their only source for employment in national accounts. LFS is only adjusted for conceptual alignment to ESA95 | | | | | | | |
| EE | 609.1 | 611.4 | -2.3 | -0.4 | 6.7 | 6.7 | 0.0 |
| IE | 1 849.1 | 1 849.4 | -0.3 | 0.0 | 0.1 | -1.8 | 1.9 |
| CY | 398.2 | 395.2 | 3.0 | 0.8 | 3.4 | 0.4 | 3.0 |
| LT | 1 256.5 | 1 370.9 | -114.4 | -8.3 | -6.5 | 2.0 | -8.5 |
| HU | 3 811.9 | 3 811.9 | 0.0 | 0.0 | 0.8 | 0.8 | 0.0 |
| UK | 29 077.7 | 29 176.0 | -98.3 | -0.3 | 0.5 | 0.5 | 0.0 |
| PL | 16 130.5 | 15 562.0 | 568.5 | 3.7 | 1.1 | 0.6 | 0.5 |
| 2 Countries using mainly LFS, but replacing it in a few industries (or labour status), on a case-by-case basis | | | | | | | |
| BG | 2 949.6 | 3 401.6 | -452.0 | -13.3 | -3.4 | -4.2 | 0.8 |
| EL | 4 090.7 | 4 446.8 | -356.1 | -8.0 | -6.8 | -5.6 | -1.2 |
| LV ⁽¹⁾ | 861.6 | 864.0 | -2.4 | -0.3 | : | : | : |
| RO | 9 137.7 | 9 364.7 | -227.0 | -2.4 | -1.1 | -1.3 | 0.2 |
| 3 Countries not using LFS, or making minimal use of it | | | | | | | |
| BE | 4 509.3 | 4 622.0 | -112.7 | -2.4 | 0.5 | 1.3 | -0.8 |
| CZ | 4 904.0 | 5 022.4 | -118.4 | -2.4 | 0.4 | 0.6 | -0.2 |
| FR ⁽²⁾ | 25 777.8 | 27 312.4 | -1 534.6 | -5.6 | 0.3 | 0.5 | -0.2 |
| LU | 224.8 | 226.7 | -1.9 | -0.8 | 1.8 | 2.6 | -0.8 |
| SI | 936.1 | 951.6 | -15.5 | -1.6 | -3.1 | -1.4 | -1.7 |
| IS | 166.0 | 167.3 | -1.3 | -0.8 | 0.1 | 0.0 | 0.1 |
| 4 Countries combining sources for labour supply and demand, LFS being one source among others. This group is rather heterogeneous and can be sub-divided as follows: | | | | | | | |
| 4a Countries giving precedence to labour supply sources (i.e. LFS) | | | | | | | |
| ES | 18 104.6 | 18 548.3 | -443.7 | -2.4 | -1.9 | -1.6 | -0.3 |
| IT | 22 967.2 | 24 520.1 | -1 552.9 | -6.3 | 0.4 | 0.3 | 0.1 |
| PT | 4 837.0 | 4 883.7 | -46.7 | -1.0 | -2.8 | -1.9 | -0.9 |
| SK | 2 351.4 | 2 351.4 | 0.0 | 0.0 | 1.5 | 1.5 | 0.0 |
| FI | 2 473.7 | 2 509.8 | -36.1 | -1.4 | 1.1 | 2.2 | -1.1 |
| SE | 4 641.9 | 4 609.8 | 32.1 | 0.7 | 2.1 | 2.2 | -0.1 |
| NO | 2 535.5 | 2 625.0 | -89.5 | -3.4 | 1.4 | 1.4 | 0.0 |
| CH | 4 366.4 | 4 366.4 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 |
| HR | 1 492.5 | 1 487.2 | 5.3 | 0.4 | -3.2 | -2.3 | -0.9 |
| 4b Countries not giving precedence to any labour side | | | | | | | |
| DE | 39 737.1 | 41 116.0 | -1 378.9 | -3.4 | 2.6 | 1.4 | 1.2 |
| AT | 4 143.8 | : | : | : | 1.2 | : | : |
| 4c Countries giving precedence to labour demand sources (i.e. employment registers and/or enterprise surveys) | | | | | | | |
| DK | 2 702.7 | 2 765.0 | -62.3 | -2.3 | -0.1 | -0.5 | 0.4 |
| MT | 168.6 | 167.9 | 0.7 | 0.4 | 2.7 | 2.7 | 0.0 |
| NL | 8 368.7 | 8 560.9 | -192.2 | -2.2 | 0.0 | 0.6 | -0.6 |
| MK | 645.1 | : | : | : | 1.1 | : | : |

⁽¹⁾ LV not comparable with 2010 - break in series.

⁽²⁾ The National Accounts estimates include the French overseas departments (DOM), which are not covered by the LFS.

(:) indicates that information is not available

Source: Eurostat Labour Force Survey, Annual averages (online data code: lfsi_emp_a). Extraction 1 February 2013 and Eurostat National Accounts, national concept (online data code: nama_aux_pem). Extraction 13 March 2013

9 Regional labour market statistics⁽¹⁶⁾

9.1 Introduction

The EU-LFS is designed to give accurate quarterly information at national level and accurate annual information at NUTS 2 regional level. Microdata including the NUTS 2 level codes are provided by all the participating countries with a good degree of geographical comparability, which allows the production and dissemination of a wide set of comparable indicators. Eight countries, namely Estonia, Cyprus, Luxembourg, Malta, Latvia, Lithuania, Iceland and the former Yugoslav Republic of Macedonia comprise a single NUTS 2 region, i.e. the national result is also the NUTS 2 result (as well as the NUTS 1 result).

For the purposes of regional analyses as well as for monitoring the progress towards regional cohesion, data at NUTS 3 level are also often requested by users. However, as the transmission of data at NUTS 3 level has no legal basis, the figures are provided by participating countries on a voluntary basis with the purpose of deriving other regional aggregations. Therefore, available NUTS 3 data is currently only used for publication at a more aggregated level. For example, unemployment and employment figures are disseminated for rural, intermediate and urban areas as well as metropolitan regions, which are based on data of groups of NUTS 3 regions.⁽¹⁷⁾

The compilation of NUTS 2 figures is well specified in the EU-LFS. As this is not the case for the NUTS 3, the sources and compilation methods for this dataset are described below.

9.2 Sources for NUTS 3 level labour market statistics

Traditionally, NUTS 3 level data were sent to Eurostat in the form of tables computed directly by the countries. In recent years Eurostat has encouraged the participating countries to provide NUTS 3 codes in the LFS microdata, thus giving a clear indication about the LFS being the preferred source.

At present, 19 Member States (Austria, Belgium, Bulgaria, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Malta, the Netherlands, Slovakia, Spain, Sweden and the United Kingdom) and Norway send the NUTS 3 codes in the LFS microdata. Twelve of these countries, namely Austria, Bulgaria, Estonia, Hungary, Ireland, Italy, Latvia, the Netherlands, Slovakia, Spain, Sweden and the United Kingdom, also transmit tabulated results. Five countries, Czech Republic, Germany, Poland, Romania and Slovenia, only transmit tabulated results. For most countries the only source is the LFS, and the aggregated tables are based on the LFS results. For Austria, Denmark, France, Germany, and the Netherlands, instead, the tables are based on other reliable sources (registers, small area estimation, etc.) or a combination of LFS and other sources. For two Member States, Cyprus and Luxembourg, the NUTS 3 level does not differ from the NUTS 1 and the NUTS 2 level. In 2011, for Portugal, Switzerland, Iceland and Candidate countries, no NUTS 3 data were available.

⁽¹⁶⁾ The chapter 9 was jointly written by Units F3 and E4.

⁽¹⁷⁾ For a detailed description of this regional typologies, see:

http://epp.eurostat.ec.europa.eu/portal/page/portal/rural_development/methodology

http://epp.eurostat.ec.europa.eu/portal/page/portal/region_cities/metropolitan_regions

9.3 Coefficient of variation for NUTS 2 and NUTS 3 regions for the unemployment rate

The coefficients of variation for each NUTS 2 and NUTS 3 region for both the employment and unemployment rate are provided to Eurostat directly by the participating countries. This report focuses on the coefficients of variation for the unemployment rate, which provide information about the accuracy of the most prominent labour market indicator at regional level.

Table 9.1 presents a summary of the coefficients of variation for the unemployment rate, for countries sending NUTS 3 level data, reporting the lowest and the highest values for a NUTS 2 and NUTS 3 region in each country.

Table 9.1 Coefficient of variation (CV) for the unemployment rate, 2011

| | CV of regional (NUTS 2) annual aggregates (%) | | CV of regional (NUTS 3) annual aggregates (%) | |
|----|---|---------|---|---------|
| | Lowest | Highest | Lowest | Highest |
| BE | 5.8 | 10.7 | - | - |
| BG | 4.9 | 8.0 | 6.6 | 25.4 |
| CZ | : | : | : | : |
| DK | 2.7 | 4.7 | - | - |
| DE | 2.7 | 11.8 | - | - |
| EE | - | - | 6.3 | 11.2 |
| IE | 2.0 | 3.8 | 4.7 | 7.9 |
| EL | 2.7 | 11.4 | 2.7 | 33.2 |
| ES | 1.5 | 22.5 | 3.0 | 22.5 |
| FR | : | : | - | - |
| IT | 2.5 | 8.5 | 3.7 | 30.8 |
| CY | N.A. | N.A. | - | - |
| LV | N.A. | N.A. | 5.1 | 10.4 |
| LT | N.A. | N.A. | 8.7 | 22.4 |
| LU | N.A. | N.A. | - | - |
| HU | 3.8 | 6.8 | 4.9 | 18.2 |
| MT | - | - | 4.0 | 14.1 |
| NL | 3.4 | 14.2 | 5.5 | 50.1 |
| AT | 5.5 | 11.2 | - | - |
| PL | 3.8 | 5.5 | 4.6 | 15.5 |
| PT | 3.3 | 6.9 | - | - |
| RO | 6.9 | 13.5 | - | - |
| SI | 4.2 | 4.6 | 6.2 | 18.5 |
| SK | 1.8 | 4.6 | 2.6 | 6.4 |
| FI | 2.5 | 26.2 | 3.8 | 26.2 |
| SE | 2.5 | 4.7 | 2.7 | 7.9 |
| UK | 4.3 | 17.3 | : | : |
| IS | - | - | - | - |
| NO | : | : | - | - |
| CH | 5.9 | 10.2 | - | - |
| HR | 4.8 | 6.5 | - | - |
| MK | - | - | - | - |
| TR | 2.9 | 13.1 | - | - |

Note: (-) indicates that CV at the regional level is not applicable, either because the regional level does not differ from the higher NUTS level, the country does not deliver NUTS 3 level employment and unemployment data, or the source is not the LFS. (:) indicates that no information on the regional CV is supplied.

Source: EU-LFS Standard Quality Report

The EU-LFS is designed to provide reliable estimates on the NUTS 2 level of aggregation, provided that the population of the region in question exceeds 300,000 inhabitants. The coefficients of variation given in table 9.1 are nevertheless provided for regions which have a small population and hence a small sample size. In the EU-27 in 2011, 13 out of 271 NUTS 2 regions have a population below 300,000 inhabitants. This will tend to inflate the CVs and the range of CVs.

As expected, the CVs for the NUTS 3 regions are higher and have a wider range than for the NUTS 2 ones. Of the sixteen countries providing CVs on NUTS 3 level, six have CVs up to 15 % and five more have CVs up to 25 % while another five countries have regional CVs of over 25 %.

9.4 Current developments

Given the growing demand for comparable regional data, Eurostat started encouraging countries to provide NUTS 3 codes in LFS microdata. The number of countries providing this information is increasing year after year. Although some countries do not transmit NUTS 3 codes yet, efforts will continue in order to obtain coverage as wide as possible. The idea is that in the future only countries using sources different from the LFS deliver aggregated tables. However, due to non-sampling errors and the combined use of LFS data with the information from registers, it is currently very difficult to assess the accuracy of NUTS 3 level labour market data according to scientific standards.

Eurostat is currently assessing the issues concerning NUTS 3 data. In addition to analyzing further indicators/breakdowns which could be published by regional typologies, Eurostat in co-operation with Member States will investigate the potential of increasing the use of small area estimation techniques to enhance the reliability and availability of NUTS 3 level data in the future.

Annex I: Item non-response compared to the variables defined by the Commission Regulation (EC) No 377/2008 and clarifications provided by Member States

Quarterly data 2011

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------|------|------|------|------|--|
| BE | compulsory | Col_073/74 | HWWISH | 91.1 | 90.2 | 90.7 | 89.3 | HWWISH is only asked to persons who declared to wish to work more. |
| | | Col_110 - Employed | METHODH | C | . | . | . | METHODH is not often used in Belgium. No or only a few persons in our sample who searched work via METHODDH. |
| | | Col_116 | WANTWORK | 41.9 | 41.0 | 43.4 | 42.8 | We don't ask 'wantwork' to all persons with 'seekwork' =3. We have no info about 'wantwork' for persons with 'statbi'=2 & 'seekwork'=3 neither for persons with 'seekwork' = 3 but who are (early) retired. 99% or more of the item non-response concerns (early) retired persons. We can consider them as not willing to work anymore since they don't seek work. |
| | | Col_195 | INTWAVE | C | C | C | . | one wave in 2011 |
| BG | compulsory | Col_54 | TEMPDUR | 14.6 | . | . | . | Respondents meet difficulties to answer the question. About a third of non-responded persons were working without a labour contract. |
| | | Col_82/83 | HWACTUA2 | 22.0 | 26.4 | 27.9 | 20.5 | Respondents meet difficulties to answer the question, especially self-employed. More than a half of non-responded persons were self-employed on the second job. |
| | | Col_110 - Employed | METHODH | C | . | . | C | This method is rarely used by employed persons to find other job. |
| | | Col_111 - Employed | METHODI | C | C | . | C | This method is rarely used by employed persons to find other job. |
| | | Col_114 - Employed | METHODL | . | . | . | C | This method is rarely used by employed persons to find other job. |
| | | Col_115 - Employed | METHODM | C | C | C | C | Only methods corresponding to variables from METHODDA (col_103) to METHODDI (col_111) are considered as active methods. |
| | | Col_115 - Not employed | METHODM | C | C | C | . | Only methods corresponding to variables from METHODDA (col_103) to METHODDI (col_111) are considered as active methods. |
| CZ | compulsory | Col_101 - Employed | SEEKTYPE | 11.6 | . | . | . | the values are in Quarter 2,3,4, as well. |
| | | Col_123 | EDUCSTAT | 14.7 | 14.8 | 14.9 | 15.0 | only persons aged 15-69 |
| DK | compulsory | Col_23 | PROXY | 10.7 | 10.8 | 10.7 | 10.5 | In the Danish LFS the variable covers only population 15-74. |
| | | Col_028 | SIGNISAL | C | . | C | C | The corresponding variable is no longer collected in the Danish LFS. |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------|-------|-------|-------|-------|---|
| | | Col_084 | EXISTPR | 27.0 | 27.5 | 27.4 | 26.4 | In the Danish LFS the variable covers only population 15-74. |
| | | Col_114 - Employed | METHODL | . | C | C | . | Extremely rare answer option, which in effect makes little sense nationally. |
| | | Col_123 | EDUCSTAT | 10.7 | 10.8 | 10.7 | 10.5 | In the Danish LFS the variable covers only population 15-74. |
| | | Col_162/163 | INTWEEK | 29.7 | 29.9 | 29.7 | 29.2 | In the Danish LFS the variable covers only population 15-74. |
| DE | compulsory | Col_114 - Employed | METHODL | C | . | . | . | |
| | | Col_114 - Not employed | METHODL | C | . | . | . | |
| | | Col_195 | INTWAVE | 100.0 | 100.0 | 100.0 | 100.0 | This variable is not filled because there are no intra-annual waves in the German LFS. |
| | optional | Col_21/22 | COUNTRYB | 100.0 | 100.0 | 100.0 | 100.0 | This variable is not filled in 2011 for legal reasons. |
| EE | compulsory | Col_028 | SIGNISAL | . | C | . | . | Due to small absolute numbers very few cases, if any. |
| | | Col_111 - Employed | METHODI | C | C | . | C | Due to small absolute numbers very few cases, if any. |
| | | Col_111 - Not employed | METHODI | . | C | . | . | Due to small absolute numbers very few cases, if any. |
| | | Col_113 - Employed | METHODK | C | C | C | C | Due to small absolute numbers very few cases, if any. |
| | | Col_113 - Not employed | METHODK | . | . | C | . | Due to small absolute numbers very few cases, if any. |
| | | Col_114 - Employed | METHODL | C | C | C | . | Due to small absolute numbers very few cases, if any. |
| | | Col_114 - Not employed | METHODL | . | C | C | . | Due to small absolute numbers very few cases, if any. |
| | | Col_115 - Employed | METHODM | C | C | C | C | Due to small absolute numbers very few cases, if any. |
| | | Col_115 - Not employed | METHODM | . | C | C | C | Due to small absolute numbers very few cases, if any. |
| IE | compulsory | Col_054 | TEMPDUR | 58.3 | 54.7 | 55.2 | 54.6 | There are improvements associated with this variable from Q2 2012 onwards. |
| | | Col_089/90 | MONTHPR | . | 14.8 | 16.8 | 20.8 | Level of non-response to be investigated. |
| | | Col_115 - Employed | METHODM | C | C | C | C | METHODM will be available from Q2 2012 onwards. |
| | | Col_115 - Not employed | METHODM | C | C | C | C | METHODM will be available from Q2 2012 onwards. |
| EL | compulsory | Col_39/40 | COUNTRYW | C | C | C | 0.0 | It is quite rare the incidence of persons residing in Greece and working abroad. Usually there is a labour force "input" from bordering countries. |
| ES | compulsory | Col_54 | TEMPDUR | 14.3 | 15.0 | 14.0 | 15.7 | respondent 'don't know' |
| | | Col_73/74 | HWWISH | 84.0 | 84.1 | 85.0 | 84.1 | Most of the blanks come from people that don't wish to work more/less hours (perhaps the filter for this variable should be changed or add proper categories). Other option is to code the number of hours HHWISH from HWUSUAL. |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|-------------|----------------------|------|------|------|------|--|
| | | Col_115 | METHODM_employed | C | C | C | C | No 'other' active method in the survey. |
| | | Col_115 | METHODM_Not Employed | C | C | C | C | No 'other' active method in the survey. |
| | | Col_124 | EDUCLEVL | 21.7 | 22.1 | 24.6 | 28.0 | People aged 15. |
| | | Col_129/131 | COURLEN | 32.5 | 33.8 | 42.6 | 31.9 | People aged 15 plus 'don't know' number of hours. |
| FR | compulsory | Col_28 | SIGNISAL | C | C | C | C | The question is not included in the questionnaire. It could be included in the new questionnaire in 2013, depending on the conclusions of the task force working on the definition of employment. |
| | | Col_54 | TEMPDUR | 11.2 | 12.1 | 10.8 | 11.2 | This question is not asked for all types of temporary work, this will be corrected in the new questionnaire in 2013. |
| | | Col_65/66 | HWOVERP | 18.1 | 17.7 | 14.4 | 17.6 | Some people who do not declare any contractual time are not asked about their overpaid hours; this will be corrected in the new questionnaire in 2013. |
| | | Col_67/68 | HWOVERPU | 18.1 | 17.7 | 14.4 | 17.6 | Some people who do not declare any contractual time are not asked about their overpaid hours; this will be corrected in the new questionnaire in 2013. |
| | | Col_73/74 | HWWISH | 13.3 | 16.4 | 17.0 | 16.4 | We impute non-response when there are incoherence; for instance when the interviewee declares that he wants to work more and then the number of hours he wished is inferior to the usual number of hours worked. |
| | | Col_112 | METHODJ_employed | C | C | C | C | The question is not asked yet; it will be included in the new questionnaire in 2013. |
| | | Col_112 | METHODJ_Not Employed | C | C | C | C | The question is not asked yet; it will be included in the new questionnaire in 2013. |
| | | Col_113 | METHODK_employed | C | C | C | C | The question is not asked yet; it will be included in the new questionnaire in 2013. |
| | | Col_113 | METHODK_Not Employed | C | C | C | C | The question is not asked yet; it will be included in the new questionnaire in 2013. |
| | | Col_114 | METHODL_employed | C | C | C | C | The question is not asked yet; it will be included in the new questionnaire in 2013. |
| | | Col_114 | METHODL_Not Employed | C | C | C | C | The question is not asked yet; it will be included in the new questionnaire in 2013. |
| | | Col_116 | WANTWORK | 35.3 | 34.4 | 34.2 | 32.9 | The question is not asked for people between 65 and 75; it will be included for them in the new questionnaire in 2013. |
| | | Col_162/163 | INTWEEK | 9.8 | 9.9 | 10.1 | 9.7 | For households where all persons are aged 65 or more and are inactive, the variables are imputed for waves 2 et 5; thus we do not have any interview weeks for them. |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------|------|------|------|------|---|
| IT | compulsory | Col_054 | TEMPDUR | 10.2 | . | . | . | Item non-responses are due to "don't know" answers and "The length is not specified in the contract" answers. In the 1st quarter this percentage has been slightly higher compared to the following quarters. |
| | | Col_073/74 | HWWISH | . | . | 15.5 | . | Please note that our questions on WISHMORE-HWWISH are referred to the wish of working more than the actual number of hours. Most of the item non-responses are due to persons that did not want to work at all in the reference week (code "0" is not available); they are mainly concentrated in the 3rd quarter in which there are summer holidays. A little percentage of item non-responses is due to "don't know" answers. |
| | | Col_101 - Employed | SEEKTYPE | 18.8 | 17.3 | 17.0 | 18.2 | Item non-responses are due to persons that do not have preferences about an employment as self-employed or employee. |
| | | Col_101 - Not employed | SEEKTYPE | 21.2 | 21.6 | 21.8 | 21.6 | Item non-responses are due to persons that do not have preferences about an employment as self-employed or employee. |
| CY | compulsory | Col_039/40 | COUNTRYW | C | C | . | C | Country is always CY |
| | | Col_041/42 | REGIONW | C | C | . | C | NUTS 2 is the whole of CY |
| | | Col_104 - Employed | METHODB | C | C | . | . | Rare method to use for searching |
| | | Col_110 - Employed | METHODH | . | C | C | . | Rare method to use for searching |
| | | Col_111 - Employed | METHODI | C | C | C | . | Rare method to use for searching |
| | | Col_111 - Not employed | METHODI | C | . | . | . | Rare method to use for searching |
| | | Col_115 - Employed | METHODM | C | C | C | C | Rare method to use for searching |
| | | Col_115 - Not employed | METHODM | . | . | . | C | Rare method to use for searching |
| LV | compulsory | Col_023 | PROXY | . | . | . | 11.1 | There aren't interviewed persons aged 75 or more included in filter (col.023). |
| | | Col_041/42 | REGIONW | C | C | . | C | Data about workplace are collected at NUTS 1 level, therefore there is used code 00 for whole country. |
| | | Col_084 | EXISTPR | 18.0 | 17.7 | 17.8 | 20.7 | There aren't interviewed persons aged 75 or more included in filter (col.24-5). |
| | | Col_104 - Employed | METHODB | . | . | . | C | Nobody did choose this method. |
| | | Col_110 - Employed | METHODH | C | . | . | C | Nobody did choose this method. |
| | | Col_111 - Employed | METHODI | C | . | . | C | Nobody did choose this method. |
| | | Col_123 | EDUCSTAT | . | . | . | 11.1 | There aren't interviewed persons aged 75 or more included in filter (col.123). |
| | | Col_128 | COURATT | . | . | . | 11.1 | There aren't interviewed persons aged 75 or more included in filter (col.128). |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------|------|------|------|------|---|
| | | Col_137/138 | HATLEVEL | . | . | . | 11.2 | There aren't interviewed persons aged 75 or more included in filter (col.137/138). |
| LT | compulsory | Col_41/42 | REGIONW | C | C | C | C | All records have two values: 00 or 99 because NUTS2 level is all country. Statistics Lithuania collects statistics on NUTS 3 level for this variable. |
| | | Col_110 - Employed | METHODH | C | . | . | . | This method used to find work is not very popular among employed respondents. In first quarter none of respondents indicated it, so all records had value 0 - "No". |
| | | Col_111 - Employed | METHODI | C | . | . | . | This method used to find work is not very popular among employed respondents. In first quarter none of respondents indicated it, so all records had value 0 - "No". |
| LU | compulsory | Col_065/66 | HWOVERP | 10.8 | . | . | . | |
| | | Col_089/90 | MONTHPR | . | . | . | 13.5 | |
| | | Col_195 | INTWAVE | . | . | C | C | |
| HU | compulsory | Col_47/48 | MSTARTWK | . | 10.9 | 15.1 | 20.6 | EU Filter: REFYEAR – YSTARTWK<=2 HUFilter: SUM (REFYEAR– YSTARTWK<2) or (SUM(REFYEAR– YSTARTWK=2) and (REFMONTH<=MSTARTWK)) |
| | | Col_84 | EXISTPR | 15.9 | 16.3 | 16.4 | 16.5 | EU Filter: WSTATOR 3-5 HU Questionnaire: Persons on lay-off are not asked about existence of previous employment experience. Number of persons on lay-off is much lower, then in EU-calculation. |
| | | Col_89/90 | MONTHPR | . | 10.0 | 15.9 | 18.6 | EU filter: REFYEAR – YEARPR<=2 HU Questionnaire: * |
| | | Col_110 - Employed | METHODH | . | . | C | C | |
| MT | compulsory | Col_025/26 | NOWKREAS | C | . | . | . | |
| | | Col_041/42 | REGIONW | C | C | C | C | |
| | | Col_054 | TEMPDUR | 26.8 | . | 15.6 | 11.6 | Item non response - Will advise interviewers to provide more information on this variable. |
| | | Col_067/68 | HWOVERPU | . | . | C | . | |
| | | Col_110 - Employed | METHODH | C | . | . | . | |
| | | Col_110 - Not employed | METHODH | C | . | . | . | |
| | | Col_111 - Employed | METHODI | C | . | . | . | |
| | | Col_111 - Not employed | METHODI | C | . | . | . | Not included in the questionnaire |
| | | Col_112 - Employed | METHODJ | C | C | C | C | |
| | | Col_112 - Not employed | METHODJ | C | C | C | C | Not included in the questionnaire |
| | | Col_113 - Employed | METHODK | C | C | C | C | Not included in the questionnaire |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------|------|------|------|------|---|
| | | Col_113 - Not employed | METHODK | C | C | C | C | Not included in the questionnaire. |
| | | Col_114 - Employed | METHODL | C | C | C | C | Not included in the questionnaire. |
| | | Col_114 - Not employed | METHODL | C | C | C | C | Not included in the questionnaire. |
| NL | compulsory | Col_029/31 | NACE3D | 10.6 | 10.4 | 10.4 | 10.4 | |
| | | Col_054 | TEMPDUR | 74.4 | 73.8 | 71.6 | 72.7 | |
| | | Col_080/81 | NACE2J2D | 16.8 | 17.1 | 17.1 | 17.5 | |
| | | Col_112 - Employed | METHODJ | . | C | . | . | |
| | | Col_112 - Not employed | METHODJ | C | . | . | C | |
| | | Col_114 - Employed | METHODL | . | C | . | . | |
| | | Col_114 - Not employed | METHODL | C | . | . | C | |
| | optional | Col_021/22 | COUNTRYB | 10.0 | . | 10.2 | 10.6 | |
| PT | compulsory | Col_054 | TEMPDUR | 11.3 | 11.6 | 11.7 | 13.0 | Corresponds to non-response of the employees who did not give an answer this variable. |
| | | Col_115 - Employed | METHODM | C | C | C | C | This variable does not exist in our national questionnaire. |
| | | Col_115 - Not employed | METHODM | C | C | C | C | This variable does not exist in our national questionnaire. |
| RO | compulsory | Col_110 - Employed | METHODH | . | . | C | C | According to the survey results this is not a very popular search method among employed (i.e. even in quarters where this method was indicated by the employed respondents, their in total employed looking for work was very low). |
| | | Col_168 | DEGURBA | . | . | C | . | This was a transcodification error which was already corrected. |
| SI | compulsory | Col_065/66 | HWOVERP | 88.1 | 88.8 | 90.5 | 86.0 | |
| | | Col_067/68 | HWOVERPU | 92.9 | 93.6 | 94.3 | 92.1 | |
| | | Col_073/74 | HWWISH | 81.9 | 83.7 | 78.7 | 80.2 | |
| | | Col_114 - Employed | METHODL | C | C | C | C | |
| | | Col_114 - Not employed | METHODL | C | . | C | C | |
| SK | compulsory | Col_101 - Employed | SEEKTYPE | 11.6 | . | . | 10.4 | Missing of appropriate code for those who are looking for any job (no preference between self-employed, employees) causes higher value of the non-response rate. |
| | | Col_101 - Not employed | SEEKTYPE | 14.2 | 13.6 | 14.1 | 15.1 | Missing of appropriate code for those who are looking for any job (no preference between self-employed, employees) causes higher value of the non-response rate. |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------|------|------|------|------|--|
| | | Col_111 - Employed | METHODI | . | . | C | C | Methods used in job seeking have the same question "State all methods you used during the last 4 weeks to find work". |
| | | Col_114 - Employed | METHODL | C | C | C | C | Methods used in job seeking have the same question "State all methods you used during the last 4 weeks to find work". |
| | | Col_115 - Employed | METHODM | C | C | C | C | Methods used in job seeking have the same question "State all methods you used during the last 4 weeks to find work". |
| | | Col_115 - Not employed | METHODM | C | C | . | C | Methods used in job seeking have the same question "State all methods you used during the last 4 weeks to find work". |
| FI | compulsory | Col_102 - Employed | SEEKDUR | . | . | 10.3 | 10.8 | |
| | | Col_112 - Employed | METHODJ | C | . | . | . | Passive job search methods are asked only if none of the active methods has been used. |
| | | Col_112 - Not employed | METHODJ | . | . | . | C | Passive job search methods are asked only if none of the active methods has been used. |
| | | Col_113 - Employed | METHODK | C | . | . | C | Passive job search methods are asked only if none of the active methods has been used. |
| | | Col_113 - Not employed | METHODK | . | . | . | C | Passive job search methods are asked only if none of the active methods has been used. |
| | | Col_114 - Employed | METHODL | C | C | . | C | NA |
| | | Col_114 - Not employed | METHODL | C | C | C | C | NA |
| | | Col_115 - Not employed | METHODM | . | . | C | . | |
| SE | compulsory | Col_001/2 | HHSEQNUM | C | C | C | C | The household supplement for the Swedish LFS is added to the 8:th rotation where all household members are included in the sample. Persons aged 15-74 years of age are interviewed with regard to the labour market. Data for 2011 has been delivered to Eurostat separately from individual data. |
| | | Col_054 | TEMPDUR | 13.8 | 12.2 | 11.8 | 15.3 | Respondents do not always remember start and end of work |
| | | Col_102 - Not employed | SEEKDUR | 22.5 | 32.9 | 14.1 | 15.0 | High item non response. People tend to forget how long they have been looking for work. |
| | | Col_114 - Employed | METHODL | C | C | . | . | Very infrequent that this variable has value 1. Checked against micro-data. |
| | | Col_114 - Not employed | METHODL | C | C | . | . | Very infrequent that this variable has value 1. Checked against micro-data. |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------|------|------|------|------|---|
| UK | compulsory | Col_054 | TEMPDUR | 54.1 | 55.6 | 54.2 | 52.7 | There is a high-level of non-response due to a relatively small proportion of the employed sample working in a temporary job in the reference week. |
| | | Col_065/66 | HWOVERP | 90.3 | 90.7 | 90.5 | 90.7 | There is a high level of non-response due to a relatively small proportion of the employed sample working overtime in the reference week. |
| | | Col_067/68 | HWOVERPU | 83.3 | 83.9 | 85.2 | 84.9 | There is a high level of non-response due to a relatively small proportion of the employed sample working overtime in the reference week. |
| | | Col_073/74 | HWWISH | 88.8 | 89.2 | 88.7 | 88.7 | This variable is only computed for those who wish to work more hours. The high level of non-response is due to only 4% of the sample wishing to work more hours. |
| | | Col_109 - Employed | METHODG | C | C | C | C | The UK-LFS does not collect information on whether respondents took a test, interview or examination. Only "no" responses can be computed. |
| | | Col_109 - Not employed | METHODG | C | C | C | C | The UK-LFS does not collect information on whether respondents took a test, interview or examination. Only "no" responses can be computed. |
| | | Col_113 - Employed | METHODK | C | C | C | C | The UK-LFS does not collect information on whether respondents are waiting for a call from a public employment office. |
| | | Col_113 - Not employed | METHODK | C | C | C | C | The UK-LFS does not collect information on whether respondents are waiting for a call from a public employment office. |
| | | Col_114 - Employed | METHODL | C | C | C | C | The UK-LFS does not collect information on whether respondents are awaiting results of a competition for recruitment to the public sector. |
| | | Col_114 - Not employed | METHODL | C | C | C | C | The UK-LFS does not collect information on whether respondents are awaiting results of a competition for recruitment to the public sector. |
| | | Col_129/131 | COURLEN | 78.2 | 78.9 | 79.3 | 77.2 | The high level of non-response is due to the fact that not all people who have completed a course in the last 4 weeks are asked how many hours of instruction that have attended in total. |
| | | Col_137/138 | HATLEVEL | 17.2 | 17.4 | 17.4 | 17.3 | The highest level of qualification is not asked of women aged 60-99 who are not working. Men aged 65-99 who are not working are also not asked to give their highest level of qualification. These cases appear as blanks rather than non-applicable. |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|---------|-----------------|------------------------|------------|-------|-------|-------|-------|---|
| IS | compulsory | Col_001/2 | HHSEQNUM | . | C | C | C | |
| | | Col_039/40 | COUNTRYW | C | . | C | C | |
| | | Col_041/42 | REGIONW | C | . | C | C | |
| | | Col_054 | TEMPDUR | 11.8 | . | . | . | |
| | | Col_065/66 | HWOVERP | 68.2 | 71.1 | 72.0 | 66.7 | |
| | | Col_067/68 | HWOVERPU | 67.9 | 70.6 | 71.6 | 66.3 | |
| | | Col_069/70 | HOURREAS | 18.2 | 11.9 | 12.6 | 12.5 | |
| | | Col_073/74 | HWWISH | 100.0 | 100.0 | 100.0 | 99.9 | |
| | | Col_101 - Employed | SEEKTYPE | 100.0 | 100.0 | 100.0 | 100.0 | |
| | | Col_101 - Not employed | SEEKTYPE | . | 21.2 | . | . | |
| | | Col_102 - Employed | SEEKDUR | 100.0 | 100.0 | 100.0 | 100.0 | |
| | | Col_102 - Not employed | SEEKDUR | . | 21.6 | . | . | |
| | | Col_103 - Employed | METHODA | . | . | C | . | |
| | | Col_104 - Employed | METHODB | . | . | C | . | |
| | | Col_105 - Employed | METHODC | . | . | C | . | |
| | | Col_106 - Employed | METHODD | . | . | C | . | |
| | | Col_107 - Employed | METHODE | . | . | C | . | |
| | | Col_108 - Employed | METHODF | . | . | C | . | |
| | | Col_109 - Employed | METHODG | . | . | C | . | |
| | | Col_109 - Not employed | METHODG | C | C | C | C | |
| | | Col_110 - Employed | METHODH | . | . | C | . | |
| | | Col_111 - Employed | METHODI | . | . | C | . | |
| | | Col_112 - Employed | METHODJ | . | . | C | . | |
| | | Col_113 - Employed | METHODK | . | . | C | . | |
| | | Col_113 - Not employed | METHODK | C | C | C | C | |
| | | Col_114 - Employed | METHODL | . | . | C | . | |
| | | Col_114 - Not employed | METHODL | C | C | C | C | |
| | | Col_115 - Employed | METHODM | . | . | C | . | |
| | | Col_116 | WANTWORK | 24.5 | 34.6 | 28.9 | 22.0 | |
| | | Col_117 - Employed | AVAILBLE | C | C | C | C | |
| Col_124 | EDUCLEVL | . | . | 28.7 | . | | | |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------------------|-------|-------|-------|-------|--|
| NO | compulsory | Col_039/40 | COUNTRYW | C | C | C | C | will be delivered from 2013 |
| | | Col_047/48 | MSTARTWK | 25.0 | 28.6 | 31.4 | 35.6 | high rate of non-response |
| | | Col_054 | TEMPDUR | 47.1 | 41.7 | 42.6 | 40.0 | persons working in temporary staff recruitment agencies do not have any stop date. |
| | | Col_071 | WISHMORE | 11.7 | 12.3 | 13.3 | . | due to proxy |
| | | Col_076 | LOOKOJ | 11.1 | 11.6 | 12.5 | . | due to proxy |
| | | Col_114 - Employed | METHODL | C | C | C | C | not an option in Norway |
| | | Col_114 - Not employed | METHODL | C | . | C | . | not an option in Norway |
| | | Col_162/163 | INTWEEK | . | 11.3 | . | . | |
| CH | compulsory | Col_001/2 | HHSEQNUM | C | C | C | C | In Switzerland (see derogation in annex II) only one person per household is interviewed. For this person HHSEQNUM automatically equals 1. |
| | | Col_080/81 | NACE2J2D | 12.8 | 13 | 10.9 | 11.5 | Codification problem |
| | | Col_101 - Not employed | SEEKTYPE | . | 10.1 | . | . | Non-response only slightly higher than in other quarters. |
| | | Col_110 - Employed | METHODH | C | C | . | . | No respondent used this method. |
| | | Col_110 - Not employed | METHODH | C | . | . | C | No respondent used this method. |
| | | Col_111 - Not employed | METHODI | C | . | . | . | No respondent used this method. |
| | | Col_113 - Employed | METHODK | . | C | . | . | No respondent used this method. |
| | | Col_114 - Employed | METHODL | C | C | C | C | Not relevant for Switzerland |
| | | Col_114 - Not employed | METHODL | C | C | C | C | Not relevant for Switzerland |
| HR | compulsory | Col_65/66 | HWOVERP | 97.9 | 96.8 | 96.9 | 97.9 | |
| | | Col_73/74 | HWWISH | 93.3 | 93.5 | 92.3 | 92.0 | |
| | | Col_101 | SEEKTYPE_ Employed | 100.0 | 100.0 | 100.0 | 100.0 | |
| | | Col_101 | SEEKTYPE_ Not Employed | 100.0 | 100.0 | 100.0 | 100.0 | |
| MK | compulsory | Col_041/42 | REGIONW | C | . | C | C | |
| | | Col_114 - Employed | METHODL | C | C | C | C | Awaiting the results of a competition for recruitment to the public sector. We plan to introduce this variable in the future. |
| | | Col_114 - Not employed | METHODL | C | C | C | C | Awaiting the results of a competition for recruitment to the public sector. We plan to introduce this variable in the future. |
| | | Col_168 | DEGURBA | 100.0 | 100.0 | 100.0 | 100.0 | Degree of urbanisation. We plan to introduce this variable in the future. |
| | optional | Col_021/22 | COUNTRYB | 85.1 | 85.3 | 84.4 | 84.3 | |

| | Variable status | Column | Identifier | Q1 | Q2 | Q3 | Q4 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----------|-----------------|------------|------------|-------|-------|-------|--|---|
| TR | compulsory | Col_17/18 | NATIONAL | 100.0 | 100.0 | 100.0 | 100.0 | According to the 2010 Address Based Population Registration System; 99,7 % of population has Turkish Nationality. So, it is not easy to cover non-nationals with a sample survey. |
| | | Col_032/35 | ISCO4D | 100.0 | 100.0 | 100.0 | 100.0 | ISCO 08 codification has started in 2012 since national dictionary became available in 2011. |
| | | Col_39/40 | COUNTRYW | C | . | C | C | There are very few people who are working abroad and at the same time considered as household member since Turkey is a very broad country. This may only occur in border cities, but not common. So, this variable is not asked. |
| | | Col_67/68 | HWOVERPU | 100.0 | 100.0 | 100.0 | 100.0 | Only total overtime is asked in the questionnaire (paid+unpaid). Since it is not possible to distinguish paid and unpaid overtime. Total overtime is given in HWOVERP and this variable is coded as blank. |
| | | Col_73/74 | HWWISH | 100.0 | 100.0 | 100.0 | 100.0 | This variable was dropped out from the questionnaire in 2009 since it was observed that, results were not reliable. Respondents replied this question as they understand (some give the hours that would like to work in total while others only give the additional hours). |
| | | Col_104 | METHODB | C | C | C | C | For employed people all the methods are not asked in same detail, some of them are grouped looking at the frequency (for example, Public Employment Office and Private Employment Offices are combined in one code). So, while constituting the METHOD variables, there are some blank codes for employed people. |
| | | Col_108 | METHODF | C | C | C | C | |
| | | Col_111 | METHODI | C | C | C | C | |
| | | Col_113 | METHODK | C | C | C | C | |
| | | Col_114 | METHODL | C | C | C | C | |
| | Col_168 | DEGURBA | 100.0 | 100.0 | 100.0 | 100.0 | For the moment there is not an external source to be used for this variable. | |
| optional | Col_021/22 | COUNTRYB | 64.6 | 65.6 | 64.9 | 64.8 | | |

Note: 'C' All records have the same value

Source: Joint Standard Quality Report for Labour Force Survey and Regional Labour Market Statistics – Annual quality reports 2011

Annual data 2011

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|--------------------|-----------------------|-------|---|
| BE | compulsory | Col_118 | AVAIREAS_Employed | 90.5 | Employed persons who don't wish to change work are not asked if they are available. For these persons we don't know if they are available. We can suppose that they are not available for other reasons. |
| | | Col_118 | AVAIREAS_Not Employed | 90.4 | (early) retired persons are asked if they are searching a job. If not, they are not asked if they want a job. So we don't know for these persons if they are available. |
| BG | compulsory | Col_118 - Employed | AVAIREAS | 27.8 | This figure refers to only few cases in the file. Persons employed but temporary absent from work (e.g. on parental leave) - cases with SIGNISAL=3, were not asked this question due to the limitation of paper questionnaire. The future decision will depend on the existence of variable SIGNISAL. |
| | optional | Col_136 | COURWORH | 100.0 | This variable is not available in BG LFS. |
| CZ | compulsory | Col_154/155 | INCDECIL | 100.0 | We will send dataset with this variable during the next year (imputation). |
| | optional | Col_125/127 | EDUCFILD | 100.0 | Czech LFS does not survey this variable. |
| | | Col_132 | COURPURP | 100.0 | Czech LFS does not survey this variable. |
| | | Col_133/135 | COURFILD | 100.0 | Czech LFS does not survey this variable. |
| | | Col_136 | COURWORH | 100.0 | Czech LFS does not survey this variable. |
| DK | compulsory | Col_142/145 | HATYEAR | 20.2 | Under-coverage of register. |
| | | Col_146 | WSTAT1Y | 10.7 | In the Danish LFS the variable covers only population 15-74. |
| | | Col_154/155 | INCDECIL | 100.0 | Will be delivered later. |
| | optional | Col_132 | COURPURP | 100.0 | Not compulsory |
| | | Col_133/135 | COURFILD | 100.0 | Not compulsory |
| DE | compulsory | Col_036 | SUPVISOR | 26.7 | |
| | | Col_049 | WAYJFOUN | 12.2 | |
| | | Col_053 | TEMPREAS | 32.0 | |
| | | Col_055 | TEMPAGCY | 13.5 | |
| | | Col_120 | NEEDCARE | 34.6 | |
| | | Col_121 | REGISTER | 93.3 | |
| | optional | Col_142/145 | HATYEAR | 12.3 | |
| | | Col_122 | MAINSTAT | 100.0 | |
| | | Col_125/127 | EDUCFILD | 100.0 | |
| | | Col_136 | COURWORH | 100.0 | |

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions |
|-------------|-----------------|--------------------|------------|--|--|
| EE | compulsory | Col_53 | TEMPREAS | 13.7 | In the Eurostat's study on 'Analysis of questionnaires, explanatory notes and transcoding programmes for the national Labour Force Surveys', it was pointed out that in the Estonian transcoding program, the EU LFS option 3 (Person did not want a permanent job) of the variable TEMPREAS includes persons having 'no preference' (D15=3) between both categories 'Did not want permanent job' and 'Wanted permanent job, but have not found'. To correct it, persons having 'no preference' (D15=3) are coded as 'blank' since 2010. |
| IE | compulsory | Col_53 | TEMPREAS | 54.0 | There are improvements associated with this variable from Q2 2012 onwards - this reduces the number of blank answers. |
| | | Col_093 | STAPROPR | 100.0 | This variable is not collected. |
| | | Col_100 | SEEKREAS | 90.9 | There are improvements associated with this variable from Q2 2012 onwards - this reduces the number of blank answers. |
| | | Col_118 - Employed | AVAIREAS | 97.2 | Level of non-response to be investigated. |
| | | Col_119 | PRESEEK | 100.0 | This variable is not collected. |
| | | Col_121 | REGISTER | 100.0 | This variable is not collected. |
| | | Col_146 | WSTAT1Y | 100.0 | This variable is not collected. |
| | | Col_150/151 | COUNTR1Y | 100.0 | This variable is not collected. |
| | | Col_152/153 | REGION1Y | 100.0 | This variable is not collected. |
| | | Col_154/155 | INCDECIL | 63.9 | Due to the QNHS being a voluntary survey in Ireland, the non-response rate for this variable is high. Data, where available is now being submitted and has been submitted for previous quarters. |
| | optional | Col_132 | COURPURP | 44.9 | Data submitted - level of non-response to be investigated. |
| Col_133/134 | | COURFILD | 100.0 | This variable is not collected. | |
| Col_136 | | COURWORH | 16.2 | Data submitted - level of non-response to be investigated. | |

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|-------------------|-------|---|
| EL | compulsory | Col_53 | TEMPREAS | 12.0 | In the Greek Questionnaire there is the (residual) answer category "Did not specify the reason" (which is converted in "No answer"). It should be tested if the exclusion of this answer category would reduce the non-response in this variable. |
| | | Col_118 | AVAIREAS_Employed | 12.7 | In the Greek Questionnaire there is the (residual) answer category "Did not specify the reason" (which is converted in "No answer"). It should be tested if the exclusion of this answer category would reduce the non-response in this variable. |
| | | Col_154/155 | INCDECIL | 100.0 | |
| ES | compulsory | Col_118 - Employed | AVAIREAS | 20.4 | |
| | | Col_118 - Not employed | AVAIREAS | 10.4 | In these cases the respondent declared not knowing if was or not available to start working within two weeks and because of that he/she didn't answered the reasons for not being available to start working within 2 weeks. The question is that all these records suffered an imputation in the editing and imputation process and because of that they fulfill the filter to v53 but they don't have any answer. |
| | | Col_154/155 | INCDECIL | 100.0 | It will be provided from registers in due time. |
| | optional | Col_132 | COURPURP | 12.51 | People aged 15. |
| | | Col_133/135 | COURFILD | 12.51 | People aged 15. |
| | | Col_136 | COURWORH | 100.0 | Not provided |
| FR | compulsory | Col_49 | WAYJFOUN | 34.0 | It seems that the non-response may be due to the way we compute "has started the job in the last twelve months". |
| | | Col_091/92 | LEAVREAS | 15.0 | |
| | | Col_96/98 | ISCOPR3D | 100.0 | We will be able to deliver this variable only from 2012Q1 on. |
| | | Col_100 | SEEKREAS | 46.4 | The question is not included in the questionnaire for all inactive people. It will be included in the new questionnaire in 2013. |

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|-------------------|-------|--|
| | | Col_118 | AVAIREAS_Employed | 17.2 | For people who wants to work more, we do not ask why they are not available; this question will be added to the new questionnaire in 2013. |
| | | Col_119 | PRESEEK | 100.0 | The question is not included in the questionnaire. It will be included in the new questionnaire in 2013. |
| IT | compulsory | Col_150/151 | COUNTR1Y | 12.7 | Item non-response are due to people aged less than 15 years old, for which this information is not collected in the national questionnaire. |
| | | Col_152/153 | REGION1Y | 12.7 | Item non-response are due to people aged less than 15 years old, for which this information is not collected in the national questionnaire. |
| CY | compulsory | Col_055 | TEMPAGCY | C | No such agencies in CY. |
| LT | compulsory | Col_152/153 | REGION1Y | C | All records have two values: NUTS2 or 99. Statistics Lithuania collect statistics on NUTS 3 level for this variable. |
| | | Col_154/155 | INCDECIL | 16.7 | Some respondents do not want to tell their monthly wage (salary). From IV quarter 2010 the Social Insurance Fund Board data is used for imputation of wage (salary) from the main job for respondents who didn't answer this question. |
| LU | compulsory | Col_053 | TEMPREAS | 14.9 | |
| | | Col_118 - Employed | AVAIREAS | 12.0 | |
| | | Col_118 - Not employed | AVAIREAS | 15.0 | |
| | | Col_121 | REGISTER | 11.5 | |
| HU | compulsory | Col_154/155 | INCDECIL | 100.0 | According to the Regulation (EC) No 1372/2007 of the European Parliament and the Council of 23 October 2007 amending Council regulation (EC) No 577/98 on the organisation of a labour force sample survey in the Community transmission of the results – where administrative data are used to supply data corresponding to the survey characteristic wages from the main job, – may be forwarded to Eurostat within twenty-one months of the end of the reference period". And data always are transmitted to Eurostat to the end of the requested period. |

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----------|-----------------|------------------------|------------|-------|---|
| MT | compulsory | Col_118 - Employed | AVAIREAS | 89.7 | Values were left empty due to routing of the questionnaire |
| | | Col_150/151 | COUNTR1Y | C | |
| | | Col_152/153 | REGION1Y | C | |
| | | Col_154/155 | INCDECIL | 100.0 | Exact values for income are available in 2009, but indecil was left empty due to change in the format of data transmission; will provide missing information for 2009 and 2010 in next transmissions. |
| | optional | Col_125/127 | EDUCFILD | 100.0 | Not included in the questionnaire. |
| | | Col_132 | COURPURP | 100.0 | Not included in the questionnaire. |
| | | Col_133/135 | COURFILD | 100.0 | Not included in the questionnaire. |
| | | Col_136 | COURWORH | 100.0 | Not included in the questionnaire. |
| NL | compulsory | Col_051 | FTPTREAS | 10.5 | |
| | | Col_053 | TEMPREAS | 30.2 | |
| | | Col_093 | STAPROPR | 63.1 | |
| | | Col_094/95 | NACEPR2D | 66.8 | |
| | | Col_096/98 | ISCOPR3D | 78.5 | |
| | | Col_118 - Not employed | AVAIREAS | 32.9 | |
| | | Col_119 | PRESEEK | 66.2 | |
| | | Col_146 | WSTAT1Y | 16.7 | |
| | Col_148/149 | NACE1Y2D | 13.9 | | |
| optional | Col_133/134 | COURFILD | 11.5 | | |
| AT | compulsory | Col_121 | REGISTER | 100.0 | The data will be delivered to Eurostat in summer 2012. From the first quarter 2009 onwards these data are obtained from an administrative source. |
| | | Col_154/155 | INCDECIL | 100.0 | The data will be delivered in winter 2012 (administrative source since 2009). |
| PL | compulsory | Col_154/155 | INCDECIL | 100.0 | |
| PT | compulsory | Col_072 | WAYMORE | 100.0 | Due to a mistake in the transcoding from our national survey to LFS. The situation will be corrected and the databases of 2011 Q1, Q2, Q3, Q4 and 2012 Q1 will be sent again. |
| | | Col_154/155 | INCDECIL | 12.6 | Corresponds to non-response of the employees who did not give an answer to the income variable. |
| | optional | Col_125/127 | EDUCFILD | 100.0 | NC |
| | | Col_132 | COURPURP | 100.0 | This variable does not exist in our nati.questionnaire. |
| | | Col_133/134 | COURFILD | 100.0 | NC |
| | | Col_136 | COURWORH | 100.0 | NC |

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------|-------|--|
| RO | compulsory | Col_118 - Not employed | AVAIREAS | 23.7 | In Romanian LFS, for persons left abroad for a long period of time only few variables are collected (i.e. age, sex, level of education etc.), WSTATOR is automatically coded as 5 but no further questions are asked. Following Eurostat practice, for variable not accepting a blank value, they are automatically coded (for example "no" for SEEKWORK and AVAILABLE) while for the rest of variables they are coded as blank. The situation will improve in the future. |
| SI | compulsory | Col_016 | MARSTAT | 13.0 | There must be some technical mistake since we have the data needed. |
| | | Col_049 | WAYJFOUN | 28.9 | There must be some technical mistake since we have the data needed. |
| | | Col_096/98 | ISCOPR3D | 57.8 | There must be some technical mistake since we have the data needed. |
| | | Col_118 - Employed | AVAIREAS | 100.0 | There must be some technical mistake since we have the data needed. |
| | | Col_154/155 | INCDECIL | 100.0 | There must be some technical mistake since we have the data needed. |
| | optional | Col_125/127 | EDUCFILED | 100.0 | Item was evaluated = M? |
| | | Col_133/134 | COURFILED | 100.0 | |
| SK | compulsory | Col_154/155 | INCDECIL | 100.0 | |
| FI | compulsory | Col_049 | WAYJFOUN | 100.0 | Due to programming error the question needed for this variable was not included in the survey in 2011. The mistake has been corrected. |
| | | Col_142/145 | HATYEAR | 11.2 | |
| | | Col_146 | WSTAT1Y | 16.8 | The target group for variable WSTAT1Y is: HHLINK=1 and age=15-74 and INTWAVE=5. This group has weight COEFFY. For this group non-response rate is 4,3. Persons 75 or older have not been interviewed, neither household panel. |
| | | Col_150/151 | COUNTR1Y | 40.1 | The target group for variable COUNTR1Y is: HHLINK=1 and age=15-74 and INTWAVE=5. This group has weight COEFFY. For this group non-response rate is 5,9. Persons 75 or older have not been interviewed, neither household panel. |

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|------------------------|------------|-------|---|
| | | Col_152/153 | REGION1Y | 40.1 | The target group for variable REGION1Y is: HHLINK=1 and age=15-74 and INTWAVE=5. This group has weight COEFFY. For this group non-response rate is 5,9. Persons 75 or older have not been interviewed, neither household panel. |
| | optional | Col_125/127 | EDUCFILD | 78.3 | Optional variable. |
| | | Col_133/134 | COURFILD | 100.0 | Optional variable. |
| SE | compulsory | Col_096/98 | ISCOPR3D | 17.9 | Change in how this variable is produced has led to increased non-response. Retransmission of data could be needed. |
| | | Col_118 - Employed | AVAIRES | 16.2 | The variable have been adjusted 2010 |
| | | Col_121 | REGISTER | 19.9 | The high non-response is due to employed who doesn't look for another job. |
| | | Col_142/145 | HATYEAR | 26.4 | Register variable. Register quality |
| | | Col_146 | WSTAT1Y | 42.5 | A new solution of collecting the data was used during 2007. Some smaller improvements has been done since then. |
| | | Col_154/155 | INCDECIL | 100.0 | Register variable. |
| | | Col_125/127 | EDUCFILD | 100.0 | Optional. Will not be collected. |
| | | Col_132 | COURPURP | 100.0 | Optional. Will not be collected. |
| | optional | Col_133/134 | COURFILD | 100.0 | Optional. Will not be collected. |
| | | Col_136 | COURWORH | 100.0 | Optional. Will not be collected. |
| UK | compulsory | Col_053 | TEMPREAS | 32 | |
| | | Col_055 | TEMPAGCY | 98.8 | |
| | | Col_077 | LOOKREAS | 11.7 | |
| | | Col_118 - Employed | AVAIRES | 67.1 | |
| | | Col_118 - Not employed | AVAIRES | 37.3 | |
| | | Col_120 | NEEDCARE | 54.8 | |
| | | Col_142/145 | HATYEAR | 22.1 | |
| | | Col_154/155 | INCDECIL | 100 | |
| | optional | Col_122 | MAINSTAT | 100 | |
| | | Col_125/127 | EDUCFILD | 13.8 | |
| | | Col_132 | COURPURP | 86.6 | |
| | | Col_136 | COURWORH | 86.6 | |

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions | |
|------------------------|-----------------|-------------|-----------------------|----------|---|---|
| IS | compulsory | Col_53 | TEMPREAS | 33.0 | | |
| | | Col_55 | TEMPAGCY | C | | |
| | | Col_93 | STAPROPR | 67.4 | | |
| | | Col_94/95 | NACEPR2D | 49.8 | | |
| | | Col_100 | SEEKREAS | 27.7 | | |
| | | Col_118 | AVAIREAS_Employed | 100.0 | | |
| | | Col_118 | AVAIREAS_Not Employed | 79.7 | | |
| | | Col_121 | REGISTER | 70.9 | | |
| | | Col_147 | STAPRO1Y | 10.7 | | |
| | | Col_150/151 | COUNTR1Y | 49.1 | | |
| | | Col_152/153 | REGION1Y | 49.1 | | |
| | | Col_154/155 | INCDECIL | 100.0 | | |
| | | optional | Col_125/127 | EDUCFILD | C | |
| | | | Col_133/135 | COURFILD | 100.0 | |
| NO | compulsory | Col_49 | WAYJFOUN | 31.2 | | |
| | | Col_51 | FTPTREAS | 23.6 | | |
| | | Col_53 | TEMPREAS | 14.3 | | |
| | | Col_94/95 | NACEPR2D | 100.0 | | |
| | | Col_96/98 | ISCOPR3D | 100.0 | | |
| | | Col_100 | SEEKREAS | 24.2 | | |
| | | Col_118 | AVAIREAS_Employed | 22.0 | | |
| | | Col_119 | PRESEEK | 20.4 | | |
| | | Col_121 | REGISTER | 100.0 | | |
| | | Col_142/145 | HATYEAR | 100.0 | | |
| | | Col_150/151 | COUNTR1Y | 100.0 | | |
| | | Col_152/153 | REGION1Y | 100.0 | | |
| | | Col_154/155 | INCDECIL | 100.0 | | |
| | | optional | Col_122 | MAINSTAT | 100.0 | |
| | Col_125/127 | | EDUCFILD | 100.0 | | |
| | Col_132 | | COURPURP | 100.0 | | |
| | Col_133/135 | | COURFILD | 100.0 | | |
| | Col_136 | | COURWORH | 100.0 | | |
| | CH | compulsory | Col_049 | WAYJFOUN | 10.6 | Filter/codification-problem detected, adaptations of questionnaire/program planned. |
| Col_053 | | | TEMPREAS | 29.9 | Filter/codification-problem detected, adaptations of question./program planned. | |
| Col_094/95 | | | NACEPR2D | 13.1 | Filter/codification-problem detected, adaptations of question./program planned. | |
| Col_118 - Employed | | | AVAIREAS | C | Filter/codification-problem detected, adaptations of question./program planned. | |
| Col_118 - Not employed | | | AVAIREAS | 86.2 | Filter/codification-problem detected, adaptations of question./program planned. | |
| Col_120 | | | NEEDCARE | 35.1 | Filter/codification-problem detected, adaptations of question./program planned. | |

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|-------------|-----------------------|-------|---|
| | | Col_139/141 | HATFIELD | 13.1 | Filter/codification-problem detected, adaptations of question./program planned. |
| | | Col_142/145 | HATYEAR | 23.9 | Filter/codification-problem detected, adaptations of question./program planned. |
| | | Col_072 | WAYMORE | 33.9 | Filter/codification-problem detected, adaptations of question./program planned. |
| | | Col_125/127 | EDUCFILD | 100 | not asked |
| | | Col_132 | COURPURP | 33.9 | Filter/codification-problem detected, adaptations of question./program planned. |
| | | Col_133/134 | COURFILD | 100 | not asked |
| | optional | Col_136 | COURWORH | 100 | not asked |
| HR | compulsory | Col_118 | AVAIREAS_Employed | 68.2 | |
| | | Col_118 | AVAIREAS_Not Employed | 78.1 | |
| | | Col_150/151 | COUNTR1Y | 11.6 | |
| | | Col_152/153 | REGION1Y | 11.6 | |
| | | Col_154/155 | INCDECIL | 23.7 | |
| | optional | Col_133/135 | COURFILD | 100.0 | |
| MK | compulsory | Col_016 | MARSTAT | 15.7 | Marital status is the conjugal status of each individual in relation to the marriage laws of the country. |
| | | Col_019/20 | YEARESID | 18.2 | Year of residence for person not born in the country. |
| | | Col_053 | TEMPREAS | 10.3 | All employee persons answered this variable. |
| | | Col_75 | HOMEWK | 100.0 | This variable will be introduced next year. |
| | | Col_118 | AVAIREAS_Employed | 97.3 | One part of employed who didn't seek for a job we miss to ask "if they want to work" in the next year we will correct this. |
| | | Col_118 | AVAIREAS_Not Employed | 93.0 | Not employed who are: pensioners; disabled and persons who have already found a job didn't answer questions for this variable. In the future we will try to clear this. |
| | | Col_119 | PRESEEK | 100.0 | This variable is planned to introduced in the future. |
| | | Col_120 | NEEDCARE | 100.0 | This variable is planned to be introduced in the future. |
| | | Col_121 | REGISTER | 79.2 | For this variable no information for persons who are not registered in our employment agency was collected because they can't apply for benefit. |

| | Variable status | Column | Identifier | 2011 | Short comments on reasons for non-available statistics and prospects for future solutions |
|----|-----------------|-------------|-------------------|-------|--|
| | | Col_150/151 | COUNTR1Y | 16.9 | For this variable the information is collected for persons 15-79; for other persons no information is available. There are plans to improve the situation. |
| | | Col_152/153 | REGION1Y | 16.9 | For this variable the information is collected for persons 15-79; for other persons no information is available. There are plans to improve the situation. |
| | | Col_154/155 | INCDECIL | 100.0 | This variable will be introduced in the future |
| | optional | Col_122 | MAINSTAT | 100.0 | The variable is optional but will be introduced in the future. |
| TR | compulsory | Col_55 | TEMPAGCY | 100.0 | This variable is not asked since temporary working agencies are not common in Turkey for the moment. |
| | | Col_56 | SHIFTWK | 100.0 | Dropped in 2009 since they were found unsuitable for country situation. |
| | | Col_57 | EVENWK | 100.0 | |
| | | Col_58 | NIGHTWK | 100.0 | |
| | | Col_59 | SATWK | 100.0 | |
| | | Col_60 | SUNWK | 100.0 | |
| | | Col_096/98 | ISCOPR3D | 100.0 | |
| | | Col_118 | AVAIREAS_Employed | C | This variable is not available for employed since 2009. It had been asked until 2009 and found unnecessary when examined the frequency. |
| | | Col_121 | REGISTER | 100.0 | This question is not asked since the coverage of unemployment benefits is very limited in Turkey. (around 10% of registered unemployed are receiving unemployment benefit at the current situation). |
| | optional | Col_122 | MAINSTAT | 100.0 | These optional variables are not asked for the moment since these are not critical at national level. |
| | | Col_133/135 | COURFILD | 100.0 | |
| | | Col_136 | COURWORH | 100.0 | |

Note: 'C' All records have the same value

Source: Joint Standard Quality Report for Labour Force Survey and Regional Labour Market Statistics – Annual quality reports 2011

Annex II: Data presentation and abbreviations

Data presentation

The following symbols are used, where necessary:

- : Not available;
- Not applicable.

Geographical aggregates and country codes

| | |
|-------|------------------------------------|
| EU-27 | European Union of 27 Member States |
| EU-25 | European Union of 25 Member States |
| EU-15 | European Union of 15 Member States |
| EU | European Union |
| EA-17 | Euro area of 17 Member States |
| EA-12 | Euro area of 12 Member States |
| EA | Euro area |
| EEA | European Economic Area |

| | |
|----|----------------|
| BE | Belgium |
| BG | Bulgaria |
| CZ | Czech Republic |
| DK | Denmark |
| DE | Germany |
| EE | Estonia |
| IE | Ireland |
| EL | Greece |
| ES | Spain |
| FR | France |
| IT | Italy |
| CY | Cyprus |
| LV | Latvia |
| LT | Lithuania |
| LU | Luxembourg |
| HU | Hungary |
| MT | Malta |
| NL | Netherlands |
| AT | Austria |
| PL | Poland |
| PT | Portugal |
| RO | Romania |
| SI | Slovenia |
| SK | Slovakia |
| FI | Finland |
| SE | Sweden |



| | |
|-------------------|---|
| UK | United Kingdom |
| IS | Iceland |
| NO | Norway |
| CH | Switzerland |
| HR | Croatia |
| MK ⁽¹⁾ | the former Yugoslav Republic of Macedonia |
| TR | Turkey |

⁽¹⁾ Provisional ISO code which does not prejudice in any way the definitive nomenclature for this country, which is to be agreed following the conclusion of negotiations currently taking place on this subject at the United Nations.

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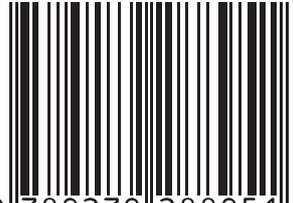
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