

Turkey - Household Labour Force Survey 2010

Report generated on: November 3, 2017

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Overview

Identification

ID NUMBER

TUR_2010_HLFS_v01_M_ILO

Version

VERSION DESCRIPTION

Version 01

Overview

ABSTRACT

The main objective of the labour force survey is to obtain information on the structure of the labour force in the country and to produce province level estimations. The main reason of having been determined the labour force survey estimation level as SRE level 2 by Eurostat is, producing statistics for sub geographical areas requires quite high sampling sizes and this is not preferred considering both the infrastructure facilities and cost limits. Producing estimates for sub regions especially requires very high sample size for the countries having excessive population, large area and too many and widely scattered settlements like Turkey. So, many countries practice different kinds of methods and mainly use econometric models to produce estimates for sub geographical areas by using administrative registers and different data sources besides the results obtained from the studies based on sampling.

BACKGROUND:

With the transition to the planned development period in Turkey, information about structure of economically active population has started to be gathered from General Population Censuses conducted in every five years and Labour Force Surveys (LFS) being conducted since 1966. However, data obtained from these sources especially the data obtained from Labour Force Survey which is the main data source for monitoring the labour market were not comparable within a time series because of the differences on geographical areas covered, definitions, concepts, variables and classifications until 1988.,

It was targeted to redesign the labor force survey to take labor market pulse on time and more correctly in the context of the project on Labour Market Information System coordinated by United Nations Development Programme (UNDP) and then in the context of World Bank Employment and Training Project with the technical assistance of International Labour Organization (ILO).

KIND OF DATA

Sample survey data [ssd]

UNITS OF ANALYSIS

- Households

- Individuals.

Scope

NOTES

The scope of this survey includes information on economic activity, occupation, status in employment and hours worked for employed persons; and information on the duration of unemployment and occupation sought by the unemployed.

TOPICS

Topic	Vocabulary	URI
Economic Activity	ILO	

Topic	Vocabulary	URI
Occupation	ILO	
Employment	ILO	
Hours Worked	ILO	
Unemployment	ILO	

Coverage

GEOGRAPHIC COVERAGE

All settlements in Turkey have been covered in sample selection.

Urban areas: Settlements with a population of 20 001 and over are defined as URBAN.

Rural areas: Settlements with a population of 20 000 or less are defined as RURAL.

UNIVERSE

Number of interviewed persons: 385 231 (15 years and over);

Number of interviewed households: 144 361.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Turkish Statistical Institute	Republic of Turkey

OTHER PRODUCER(S)

Name	Affiliation	Role
International Labour Organisation		
United Nations Development Programme		
World Bank Employment and Training Project		

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Department of Statistics	ILO	International Labour Organization	Producer of DDI

DATE OF METADATA PRODUCTION

2017-11-03

DDI DOCUMENT ID

DDI_TUR_2010_HLFS_v01_M_ILO

Sampling

Sampling Procedure

Sampling method:

2009 Household Labor Force Survey is designed to produce estimations on annually, quarterly (3 months) and monthly basis over 3 months moving average by carrying out the survey at each month in the country.

Sample Size:

Sample size of the survey is calculated in order to have annual estimations on Nuts1 x urban-rural and Nuts2 level.

For the determination of the sample size, two studies were carried out:

In the first study, the initial selection probabilities, f_0 , were calculated in parallel with the year of 2004. The number of households were allocated to the Nuts2xurban-rural groups (52) proportionally. Then, in order to achieve the sufficient sample size in each group, the number of households in the urban groups were weighted by $1.5 \cdot f_0$ and in the rural groups by f_0 . By this weighting, some groups had still under or over sample sizes. These groups were reweighted by f_0 or $2 \cdot f_0$. Hence the final sample sizes from the first study were obtained.

In the second study, the requirement of Eurostat 577/98 regulation was taken into account. The instructions in this regulation were applied on the 2007 data set and the sample sizes in each strata were calculated independently. Following the regulation, firstly, %5 of the working age population was calculated and the corresponding groups belonging to these %5 of the working age population were determined. The groups were chosen from from age, gender and education level groups. Then the sample sizes for each strata (52) were calculated depending on both the %8 coefficient of variation criteria and the values of unemployment rate, design effect, overlapping factors between quarters and correlation coefficient values in each of the selected age, gender and education level groups.

The achieved sample sizes from the two study were examined and the maximum ones in each stratum were chosen as the final sample size of the survey. Annual sample size of 2009 LFS was determined as approximately 168000 households. Accordingly, the quartely sample size consists of approximately 42000 households.

Sampling Methodology :

Two stage stratified cluster sampling.

First stage sampling unit : Blocks, which constitutes approximately 100 household addresses. While forming the sampling frame of the bocks, updated UAVT is used. Each of villages that don't have municipalites are defined as one block. The blocks are selected by proportional to size.

Second stage sampling unit : Addresses. Number of 30 addresses are selected at once. The selection is done systematically then the selected addresses are divided into two sets (A and B). In each quarter, only one of these sets from the same block is included in the survey.

Stratification : Nuts2, urban-rural

Sampling Error Estimation : Sampling errors related to proportion and total estimates of the survey are calculated based on Taylor Series approximation using SAS module.

Deviations from Sample Design

Annual sample design of LFS allows;

- Producing quarterly estimations
- Measuring variation between consecutive quarters
- Cumulating quarterly estimations for annual estimatins
- Measuring variation between same quaters of the consecutive years

- Monthly estimations over 3 month moving average approach.

The rotation pattern is applied by the use of 8 subsamples in each quarter. Each subsample constitutes 350 clusters. The addresses to be surveyed from each selected cluster are divided into two sets namely A and B. In each quarter, only one of these sets is included in the survey. Hence the %50 overlapping ratio between consecutive quarters and same quarters between consecutive years are guaranteed. Number of addresses in each cluster is 15. This value was determined by taken into account the rate of homogeneity value.

Weighting

Weighting is a method used to obtain parameters from the data set resulting from sampling so as to represent the universe. In the study, while reaching the final weight, the design weights have been calculated depending on the selection criteria; have been controlled for external distribution and corrected for non-responses. In weighting, age group, gender, NUTS Level 2, urban-rural and household size are based on as external control.

Results of the household labour force survey have been weighted and published by the most recent population projections. Until year 2009 aforesaid population projections was calculated based on the general population censuses. In 2007 Address Based Population Registration System (ABPRS) was established and there exists some differences in the distribution of population by age, sex and regions in ABPRS compared to the censuses. In this direction, the new population projections were produced using the most recent population data obtained from this new system. In this direction, national and regional population projections were renewed by the results of 2008 ABPRS and also using the results of Turkey Population and Health Survey realized by the Hacettepe University Institute of Population Studies.

New population projections have started to be used in household labour force survey results starting from January 2009 onwards and in order to obtain comparability, monthly results for 2005-2008 terms and 2004 annual results were also revised by the new population projections.

2011 results given in this CD were also weighted by the revised population projections. Moreover, micro data sets for 2004-2008 terms were revised by the renewed population projections and disseminated as combined in a CD.

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2010	2010	N/A

Time Periods

Start	End	Cycle
2010	2010	N/A

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

All the information has been collected by interviewers using Computer Assisted Personal Interviewing (CAPI) Method. Questionnaire of Household labour force survey, which is the main sources of the study, was designed considering many factors together. The international standards determined by the International Labour Organization (ILO) were taken into consideration and adapted to the country circumstances. Modifications on questionnaire were made in order to reflect possible changes occurred in time in the labour force status in Turkey and to produce both nationally and internationally comparable data. In this way norms and standards of Eurostat have also been followed from 2004. External source of this study is administrative registers. Reference and application period: The first week of each month starting with Monday and ending with Sunday was used as the reference period of labour force. The field application starts after the reference week and is completed within 15 days. For the administrative registers, current year data has been used.

Data Processing

Data Editing

The study was implemented mainly in three stages:

1. Direct estimation and related standard errors in province level by using LFS data.
2. The determination of the variables for the model by using external data sources.
3. The calculation of the composite estimates.

. Direct estimation in province level by using LFS data: Direct estimates and their standard errors were constructed in province level by using weighted LFS data. The results were used for obtaining the final estimations.

. Determining the variables of the model using the external source information: The province level information that takes place in the population census of 2010, business statistics, Social Security Institutions and Turkish Employment Office is used as external data in the study. The variables that exist in these registers, those which are statistically significant have been used in the estimation model

. Calculation of the composite estimates: The estimates of labour force, employment and unemployment ratios and their standard errors were calculated by using model based "Empirical Best Linear Unbiased Predictor" (EBLUP) for each province.

In this study, two components were considered in the model. While the first one is defined as the direct estimates from the LFS data, the latter is gathered from external variables selected by stepwise regression model.

Other Processing

GUIDE FOR MICRO DATA:

It is possible to produce cross tables, make various statistical analysis and run econometric models by means of using micro data given in this CD. To get information about the types, lengths, options and explanations of the variables and transfer the ASCII data set (.txt) to the software that will be used "data set structure" given under the title of "Variables" should be used. Data set was also given by SAS, STATA, SPSS and FOXPRO formats.

Weighting coefficient used to calculate annual results, is a separate variable in micro data set. Each individual (each record) has its own weight. Especially, if someone needs to create cross tables related to the labour force variables (employment, unemployment) weights should be used in order to reach total figures. Tables given in the "summary tables" section can be used to check whether the weighting process is made successfully.

Annual results of the household labour force survey, could be given by Statistical Regions of Europe (SRE) Level 1 in urban and rural detail and for total by SRE Level 2 besides the estimations given for Turkey and in urban rural distinction. Since SRE level 1 and Level 2 codes are given in the CD, studies could also be done in by regional breakdown. However, it should be noted that; according to the estimation level of household labour force survey, it is not reliable to produce estimations by urban/rural breakdown in SRE Level 2.

Since 2011, "Completed Age" variable has been added to data set in addition to the variable "Completed Age Group ".As the weighting process is based on the age groups in data set, it is not reliable to produce estimations by absolute age variable. This absolute age variable was added to the data set to be use in the possible modeling studies.

Turkey Statistical Institute is not responsible for the results which will be produced regardless of these warnings.

Data Appraisal

Estimates of Sampling Error

The study was implemented mainly in three stages:

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3. The calculation of the composite estimates.

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In this study, two components were considered in the model. While the first one is defined as the direct estimates from the LFS data, the latter is gathered from external variables selected by stepwise regression model.

Other forms of Data Appraisal

(1) An Evaluation Board consisting of related Heads of Department will be established by the Presidency for the purpose of appraisal of research proposals in which micro data sets will be used in scientific manner in line with the items of this Instruction.

(2) If needed, the members of the Board may be assigned from the institutions other than the Presidency.

(3) The Head of PDDD holds the Chairman of the Evaluation Board and Secretariat service will be executed by the Head of PDDD.

(4) The Chairman of the Board, based on the subject of application for the use of micro data set(s), shall assign at least 3 members of the Board. Decisions shall be taken pursuant to the procedures and principles stated in the Instruction unanimously by the participants of the meeting.

File Description

Variable List

TUR_2010_HLFS_v01_M_STATA

Content

Cases 522171

Variable(s) 100

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

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V112	s9b		discrete	character	
V113	s10a		discrete	character	
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V115	s11		discrete	numeric	
V116	s12a		discrete	character	
V117	s12b		discrete	character	
V118	s12c		discrete	character	
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(s64a)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 5067
Format: character	Invalid: 0
Width: 1	

(s64b)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 4826
Format: character	Invalid: 0
Width: 1	

(s65)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 5067
Format: character	Invalid: 0
Width: 3	

(s66)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 5067
Format: character	Invalid: 0
Width: 1	

(s67)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 5067
Format: character	Invalid: 0
Width: 1	

(s69)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Continuous	Valid cases: 522171
Format: numeric	Invalid: 0
Width: 8	Minimum: 0
Decimals: 0	Maximum: 30000
Range: 0-30000	Mean: 170.9
	Standard deviation: 501.8

(s75)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 225503
Format: character	Invalid: 0
Width: 1	

(s76)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 206913
Format: character	Invalid: 0
Width: 1	

(s77)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 2	

(s78a)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78b)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78c)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78d)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78e)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78f)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78g)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78h)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78i)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78j)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78k)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78l)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s78m)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 21021
Format: character	Invalid: 0
Width: 1	

(s79kod)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 20541
Format: character	Invalid: 0
Width: 1	

(s80a)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 20541
Format: character	Invalid: 0
Width: 1	

(s80b)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 19874
Format: character	Invalid: 0
Width: 1	

(s81)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 20541
Format: character	Invalid: 0
Width: 3	

(s83)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 204962
Format: character	Invalid: 0
Width: 2	

(s84)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 7371
Format: character	Invalid: 0
Width: 1	

(s85)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 225239
Format: character	Invalid: 0
Width: 1	

(s91)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 225503
Format: character	Invalid: 0
Width: 1	

(s92a)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 122776
Format: character	Invalid: 0
Width: 4	

(s92b)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 44507
Format: character	Invalid: 0
Width: 2	

(s93)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 69995
Format: character	Invalid: 0
Width: 2	

(s94kod)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 69995
Format: character	Invalid: 0
Width: 2	

(s95kod)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 69995
Format: character	Invalid: 0
Width: 1	

(s96)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 69995
Format: character	Invalid: 0
Width: 1	

(s97)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 384846
Format: character	Invalid: 0
Width: 2	

(s98kod)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 151923
Format: character	Invalid: 0
Width: 2	

(s99)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 151923
Format: character	Invalid: 0
Width: 1	

(nuts1)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 522171
Format: character	Invalid: 0
Width: 2	

(nuts2)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 522171
Format: character	Invalid: 0
Width: 2	

(durum)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 522171
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-4	

(kirkent)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Discrete	Valid cases: 522171
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-2	

(faktor)

File: TUR_2010_HLFS_v01_M_STATA

Overview

Type: Continuous	Valid cases: 522171
Format: numeric	Invalid: 0
Width: 9	Minimum: 38.6
Decimals: 0	Maximum: 410.6
Range: 38.6369705200195-410.552459716797	Mean: 136.6
	Standard deviation: 63.8

Related Materials

Questionnaires

Questionnaire

Title Questionnaire
 Author(s) Turkish Statistical Institute
 Date 2010-01-01
 Country Turkey
 Language English
 Filename TUR_2010_HLFS_Questionnaire.pdf

Reports

Report

Title Report
 Author(s) Turkish Statistical Institute
 Date 2010-01-01
 Country Turkey
 Language English
 Description
 - General explanation about household labour force survey
 - Revisions
 - Purpose
 - Coverage
 - Methodology
 - Weighting
 - Reference and application period
 - The method of collecting data
 - Concepts and definitions
 - Guide for micro data
 Filename TUR_2010_HLFS_Report.pdf

Technical documents

Concepts and Definitions

Title Concepts and Definitions
 Author(s) Turkish Statistical Institute
 Date 2010-01-01
 Country Turkey
 Language English
 Filename TUR_2010_HLFS_Concepts and Definitions.docx

Coverage

Title Coverage
 Author(s) Turkish Statistical Institute

Date 2010-01-01
Country Turkey
Language English
Filename TUR_2010_HLFS_Coverage.docx

Guide for Microdata

Title Guide for Microdata
Author(s) Turkish Statistical Institute
Date 2010-01-01
Country Turkey
Language English
Filename TUR_2010_HLFS_Guide for Microdata.docx

Methodology

Title Methodology
Author(s) Turkish Statistical Institute
Date 2010-01-01
Country Turkey
Language English
Filename TUR_2010_HLFS_Methodology.docx
