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LONGITUDINAL COMPONENT 2004-2007

FINAL QUALITY REPORT

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INTRODUCTION

With the Amsterdam Treaty the program of social action in all member states for the years 1998-

2000 was defined as well as the legal frame ruling the production of Social Statistics. The fields of

poverty and social exclusion were of high priority in the political agenda of the European Council

in Lisbon, in March 2000 as well as in the proposal of Commission for a communal program for

encouraging cooperation among the member states against social exclusion.

During the European Council of Lisbon (March 2000) several requests were submitted concerning

the quality improvement of statistical data and among other things were discussed the effacement

of absolute poverty, the cooperation program among member states against social exclusion as

well as the constitution of structural indicators, such as indicators of unequal income distribution,

poverty percentages before and after social transfers, intergenerational poverty, etc.

In December 2000, at the European Council that took place in Nice, France, the leaders of all

member states confirmed the decision of Lisbon, that the battle against poverty and social

exclusion is won using open methods of co-ordination and co-operation. Basic elements of this

rapprochement are the determination of commonly accepted targets for the European Union and

the elaboration of proper national action plans for the achievement of these targets, as well as the

regular report and recording of the progress being made.

The Greek Survey on Income and Living Conditions is part of the European Statistical Program

and has replaced since 2003 the European Community Household Survey.

Basic aim of the survey is the study, both at European and national level of households' living

conditions in relation to their income. The survey will be the reference for comparative statistics

on income distribution and social exclusion in the European Union.

With the survey examined are specific socio-economic magnitudes affecting population's living

conditions. With collected information our country calculates the structural indicators for social

cohesion and produces systematic statistics on income inequalities, inequalities on households'

living conditions, poverty and social exclusion.

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More specifically from the survey calculated are 12 indicators, out of the 18 social cohesion indicators of Laeken, concerning poverty and social inequality. These indicators, among other things, contribute in the configuration and practice of social politics in our country.

For the pre-mentioned reasons information is gathered, for the households as well as for their members, concerning:

- Income from any source (work, property, social benefits, etc.)
- Occupation
- Living conditions (dwelling's quality, amenities, etc.)
- Educational level
- Health status for all members of the household

According to the methodology for measuring poverty, the poverty line is calculated with its relative concept and it is defined at 60% of the median total equivalized disposable income of the household, using modified OECD equivalised scale. 'Equivalent size' refers to the OECD modified scale which gives a weight of 1.0 to the first adult, 0.5 to other persons aged 14 or over who are living in the household and 0.3 to each child aged under 14.

As total equivalized disposable income of the household is considered total net income (that is income after deducting taxes and social contributions) received from all household members.

More specifically the income components included in the survey are:

- Income from work
- Income from property
- Social transfers and pensions
- Monetary transfers from other households and
- Imputed income from the use of company car.

Income components, such as imputed rent from ownership-occupancy, indirect social transfers, income in kind and loan interest are possible to influence significantly the results and are included in the survey from this year (2007), onwards.

The survey is being conducted upon the decision of the Ministry of Finance, and according to the

contract having been signed among Commission and the National Statistical Service of Greece, in

the framework of Regulation (EC) No 1177/2003 of the European Parliament and of the Council

concerning Community Statistics on Income and Living Conditions (EU-SILC).

The survey consists of two components the cross-sectional and the longitudinal. The first one

refers to a specific time period, while the second to the changes occurring in a three or four years

time period.

This document provides common longitudinal EU indicators based on the longitudinal EU-SILC

sample, a description of accuracy, the comparability and the coherence with external sources,

according to article 16 of the EC regulation No 1777/2003 of the European Parliament and of the

Council concerning Community Statistics on Income and Living Conditions (EU-SILC) and the

commission regulation (EC) no. 28/09.01.2004 (annex III).

It is structured following the guidelines in the commission regulation (EC) no. 28/09.01.2004

(annex III). The report is divided in three chapters:

1. Longitudinal European Union Indicators

2. Accuracy

3. Comparability

4. Coherence

5. Conclusion

References

Annex¹

The questionnaires reported in the final report of EU-SILC 2003 and in the intermediate report of EU-SILC 2004, 2005, 2006 and 2007 are the same, hence not annexed. Available also at web-site www.statistics.gr

1. COMMON LONGITUDINAL EU INDICATORS BASED ON THE LONGITUDINAL COMPONENT OF EU-SILC

The longitudinal EU indicators refer to the indicators adopted from the Council of the open method of coordination, based on the longitudinal sample. These indicators (at-persistent-risk-of-poverty rate by age and gender, 60% and 50% of the median), have been calculated, according to document EU-SILC 131-rev/04, from the EU-SILC longitudinal component after four (4) years of the panel survey. For the first time the longitudinal data set of the EU-SILC operation comprises a four years panel.

More specifically, the common longitudinal EU indicators based on the longitudinal component of EU-SILC are:

- 1a. At –persistent-risk-of-poverty rate by age and gender (60% median)
- 1b. At –persistent-risk-of-poverty rate by age and gender (60% median)
- 1c. At –persistent-risk-of-poverty rate by gender (60% median)

 Distribution of total population by gender
- 1d. At –persistent-risk-of-poverty rate by age and gender (60% median)

 Distribution of total population by age and gender
- 1e. At –persistent-risk-of-poverty rate by gender (60% median)

 Distribution of poor population by gender
- 1f. At –persistent-risk-of-poverty rate by age and gender (60% median)

 Distribution of poor population by age and gender
- 2a. At –persistent-risk-of-poverty rate by age and gender (50% median)
- 2b. At –persistent-risk-of-poverty rate by age and gender (50% median)
- 2c. At –persistent-risk-of-poverty rate by gender (50% median)

 Distribution of total population by gender
- 2d. At –persistent-risk-of-poverty rate by age and gender (50% median)

 Distribution of total population by age and gender
- 2e. At –persistent-risk-of-poverty rate by gender (50% median)

 Distribution of poor population by gender
- 2f. At –persistent-risk-of-poverty rate by age and gender (50% median)

 Distribution of poor population by age and gender

The longitudinal indicators is are not specified up to now.

2. ACCURACY

2.1. Sample design

2.1.1. Type of sample design

The two-stage area sampling was applied for the EU-SILC survey.

2.1.2. Sampling units

The sample of private households was selected in two stages. The primary units are the areas (one or more unified building blocks) and the ultimate sampling units selected in each sampling area are the households.

2.1.3. Stratification and sub-stratification criteria

There are two levels of area stratification in the sampling design. The first level is the geographical stratification based on the partition of the total country into thirteen (13) standard administrative regions corresponding to the European NUTS II level. The two major city agglomerations of Greater Athens and Greater Thessalonica constitute separate major geographical strata.

The second level of stratification entails grouping municipalities and communes within each NUTS II administrative region by degree of urbanization, i.e., according to their population size. The scaling of urbanization was finally designed in four groups:

- >=30.000 inhabitants
- > 5.000-29.999 inhabitants
- ➤ 1.000-4.999 inhabitants
- ➤ 0-999 inhabitants

The number of the final strata in the thirteen (13) geographical regions was 50. The Greater Athens Area was divided into 31 strata of about equal size (equal number of households) on the basis of the lists of city blocks of the Municipalities that constitute it and taking into consideration socio-economic criteria. Similarly, the Greater Thessaloniki Area was divided into 9 equally sized strata. The two Major City Agglomerations account for about 38% of total population and for

even larger percentages in certain socio-economic variables. Thus, the total number of strata of the survey was 90.

2.1.4. Sample size and allocation criteria

The initial sample size is 8.000 households (the sampling fraction is about 2‰). This fraction was the same in each geographical region.

As it was mentioned above, the geographical regions (NUTS II) in Greece are thirteen (13) in number. However, throughout this study the 2nd geographical region (Central Macedonia) was considered without Greater Thessaloniki and the 9th geographical region (Attica) without the Greater Athens area, while either of these two major agglomerations was treated as a separate geographical region.

Table 1. Sample size and achieved response by NUTS2-units **EU SILC 2004**

NUTS2	Name	Drawn	Accepted (DB135=1)
GR11	Thraki and Anatoliki Makedonia	115	102
GR12	Kentriki Makedonia	387	318
GR13	Dytiki Makedonia	57	51
GR14	Thessalia	133	119
GR21	Ipeiros	57	51
GR22	Ionia Nisia	30	24
GR23	Dytiki Ellada	108	92
GR24	Sterea Ellada	93	82
GR25	Peloponnisos	101	82
GR30	Attiki	854	502
GR41	Voreio Aigaio	44	40
GR42	Notio Aigaio	55	46
GR43	Kriti	117	100
Total	Total	2151	1609

Table 2. Sample size and achieved response by NUTS2-units **EU SILC 2005**

NUTS2	Name	Drawn	Accepted (DB135=1)
GR11	Thraki and Anatoliki Makedonia	225	208
GR12	Kentriki Makedonia	687	595
GR13	Dytiki Makedonia	104	99
GR14	Thessalia	252	220
GR21	Ipeiros	113	97
GR22	Ionia Nisia	60	55
GR23	Dytiki Ellada	206	180
GR24	Sterea Ellada	179	155
GR25	Peloponnisos	182	154
GR30	Attiki	1360	817
GR41	Voreio Aigaio	85	68
GR42	Notio Aigaio	101	92
GR43	Kriti	215	185
Total	Total	3769	2925

Table 3. Sample size and achieved response by NUTS2-units **EU SILC 2006**

NUTS2	Name	Drawn	Accepted (DB135=1)
GR11	Thraki and Anatoliki Makedonia	333	316
GR12	Kentriki Makedonia	1009	878
GR13	Dytiki Makedonia	149	144
GR14	Thessalia	384	333
GR21	Ipeiros	163	143
GR22	Ionia Nisia	90	81
GR23	Dytiki Ellada	302	284
GR24	Sterea Ellada	256	230
GR25	Peloponnisos	264	245
GR30	Attiki	1746	1318
GR41	Voreio Aigaio	117	103
GR42	Notio Aigaio	148	139
GR43	Kriti	324	281
Total	Total	5285	4495

Table 4. Sample size and achieved response by NUTS2-units **EU SILC 2007**

NUTS2	Name	Drawn	Accepted (DB135=1)
GR11	Thraki and Anatoliki Makedonia	320	307
GR12	Kentriki Makedonia	894	806
GR13	Dytiki Makedonia	149	143
GR14	Thessalia	340	312
GR21	Ipeiros	145	139
GR22	Ionia Nisia	81	72
GR23	Dytiki Ellada	288	278
GR24	Sterea Ellada	233	211
GR25	Peloponnisos	245	229
GR30	Attiki	1327	1000
GR41	Voreio Aigaio	105	99
GR42	Notio Aigaio	141	122
GR43	Kriti	283	252
Total	Total	4551	3970

2.1.5. Sample selection schemes

1st stage of sampling

In this stage, from any ultimate stratum (crossing of Region with the degree of urbanization), say stratum h, n_h primary units were drawn (where the number n_h of draws was approximately proportional to the population size X_h of the stratum (number of households according to the last population census of the year 2001).

Each area unit (primary unit) of the stratum had a selection probability proportional to its size. So, if X_{hi} was the number of households according to the 2001 population census- of the unit in the sample of order i, then the probability of being drawn was:

$$P_{hi} = \frac{X_{hi}}{X_{h}} \quad (1)$$

The total number of the primary sampling units is 1.056 areas.

As in each year the 25% of the sample households is replaced, the new households belong to different primary sampling units.

2nd stage of sampling

In this stage from each primary sampling unit (selected area) the sample of ultimate units (households) is selected. Actually, in the second stage we draw a sample of dwellings. However, in most cases, there is one to one relation between household and dwelling. If the selected dwelling constitutes of one or more households then all of them are interviewed.

Let M_{hi} be the number of households during the survey period in the i_{th} selected area of the stratum h. Out of them a systematic sample of m_{hi} households is selected with equal probabilities. Each of m_{hi} households has the same chance to be included in the survey, equal to: $\frac{m_{hi}}{M_{hi}}$

In any selected primary unit, remains the determination of the sample size m_{hi} . The total number of households to be interviewed of the n_h selected primary sampling units will be

$$\boldsymbol{m}_h = \sum_{i=1}^{n_h} \boldsymbol{m}_{hi} (2)$$

i.e. finally by applying the two stage sampling procedure, from the stratum h the percentage of households $\frac{m_h}{M_h}$ is drawn.

In repeated sampling, the numerator of this fraction will vary from sample to sample; to be more specific the fraction $\frac{m_h}{M_h}$ is a random variable. Within each primary sampling unit the

calculation of the sampling interval $\delta_{hi} = \frac{M_{hi}}{m_{hi}}$ is carried out, so that the following two desired conditions are satisfied.

- a) The expected result $\frac{m_h}{M_h}$ is the predetermined over sampling fraction $\frac{1}{\lambda}$ in each geographical region (NUTS II): $E\left(\frac{m_h}{M_h}\right) = \frac{1}{\lambda} = 2\%$
- b) The estimator of the stratum total Y_h (for any characteristic) should be self-weighting. In other words, the calculated estimator is the result derived from the sum of the values of the characteristic over the m_h sample households by the overall raising factor λ , which is the same in each geographical region.

The conditions (a) and (b) are satisfied when:

$$\frac{1}{n_{h}} \cdot \frac{1}{P_{hi}} \cdot \frac{M_{hi}}{m_{hi}} = \lambda \quad (3) \Rightarrow$$

$$\frac{1}{n_{h}} \cdot \frac{1}{P_{hi}} \cdot \delta_{hi} = \lambda \Rightarrow$$

$$\delta_{hi} = \frac{M_{hi}}{m_{hi}} = \lambda \cdot n_{h} \cdot P_{hi} \quad (4)$$

2.1.6. Sample distribution over time

As the survey is annual, the sample of households is not distributed over time. The survey is carried out during the 1st quarter of the year with reference period of data the previous year.

2.1.7. Renewal of the sample: rotational groups

The survey is a *simple rotational design* survey. The sample for any year consists of 4 replications, which have been in the survey for 1-4 years. With the exception of the first three years of survey, any particular replication remains in the survey for 4 years, each year, one of the 4 replications from the previous year is dropped and a new one is added. Between year T and T+1 the sample overlap is 75%; the overlap between year T and year T+2 is 50%; and it is reduced to 25% from year T to year T+3, and to zero for longer intervals.

2.1.8. Weightings

For the computation of cross-sectional and longitudinal weights for both households and individuals the relevant EC-Eurostat documents were used (EUSILC Doc. 157/05 for the cross-sectional weights, EUSILC Doc. titled "Longitudinal weighting" for the longitudinal weights and EUSIC Doc 65 as a supporting document).

The longitudinal period this quality report refers to is 2004-2007. The rotation panels this period comprises are depicted in the following scheme.

YEAR OF									
THE SURVEY		ROTATION PANEL							
2003	1	2	3	4					
2004		2	3	4	5				
2005			3	4	5	6			
2006				4	5	6	7		
2007	·				5	6	7	8	
2008						6	7	8	9

As it is clear from the scheme above:

- the longitudinal component 2004-2007 of EUSILC consists of rotation panel 5, 6 and 7 for a duration of 4, 3 and 2 years respectively (2004-2007 for rotation panel 5, 2005-2007 for rotation panel 6 and 2006-2007 for rotation panel 7).
- the cross-sectional component 2007 of EUSILC consists of rotation panels 5 (wave 4), 6 (wave 3), 7 (wave 2) and 8 (wave 1).
- The first wave of the EUSILC longitudinal component is the first year each rotation panel of the longitudinal component is in the survey, while the second and following waves are the 2nd, 3rd and 4th year respectively for which the specific rotation panel is being surveyed.

Also in general the cross-sectional weights computed for the survey form the basis also for the computation of longitudinal weights and the methods and procedures used are identical. So, the computation of the longitudinal weight variables and the relevant procedure is a continuation of the cross-sectional procedure.

2.1.8.1. Design factor

The design factor (target variable DB080) is computed according to the cross-sectional logic of the survey. For the 2007 cross-sectional component and for panel 8 which is a panel of first wave, the household design weight is defined as the inverse of its probability of selection.

$$\frac{1}{n_h} \cdot \frac{1}{P_{hi}} \cdot \frac{M_{hi}}{m_{hi}} = DW_{hi} \tag{5}$$

where

 M_{hi} = the number of households in the updated sampling frame in the hi area (primary unit).

 m_{hi} = the number of selected households in the hi area (primary unit).

 n_h = the sample size of primary units in the h stratum.

 P_{hi} = the selection probability of hi primary unit.

For the other panels of the cross-sectional component (5,6 and 7) the household design weights are defined by applying the general procedure of EU-SILC Doc.157/05:

- Computation of panel person design weights
- Correction for non-response due to attrition
- Computation of sub-sample household weights
- Computation of sample household design weights

2.1.8.2. Non-response adjustments

In each design stratum, the non-response adjustment of the responding households is derived as the inverse of the response rate, so as to "make up" for non-responding cases in that stratum.

Target variable DB080 was adjusted for non-response for the variables DB120 (record of contact at address) and DB130 (household questionnaire result). The corrections were conducted at subsequent steps. The multiplication of DB080 with each one of the two corrections, results in a corrected DB080 weight that was used as initial weight in the calibration procedure already described in the intermediate quality report for the cross-sectional component of the survey.

2.1.8.3. Adjustment to external data (level, variables used and sources)

The adjustment to external data starting from the cross-sectional component of the survey and continuing to its longitudinal component, involves the calibration of the household and personal weights in conjunction with external sources (Projections for population totals for the respective

year, e.g. 2007 for the 2007 cross-sectional component). Thus, it enables the distribution of auxiliary variables on both household and individual level.

The auxiliary variables used at household level are the household size, the tenure status and the Region (NUTS 2). Also, at personal level the auxiliary variable used is the distribution of population by age (five years age groups) and sex.

Having in mind the cross-sectional component, the weights obtained after this procedure of calibration are the *household cross-sectional weights* (variable: DB090). As all the household members reply to the household questionnaire, DB090 is also the cross-sectional weight of each member of the household (variable: RB050).

The last step concerning the adjustment to external data involves the calculation of the personal cross-sectional weights for household members aged 16 and over (variable: PB040). The calibration procedure was applied again using as initial weights variable RB050 and as auxiliary variable the distribution of population aged 16 and over by age (five years age groups) and sex.

2.1.8.4. Final Longitudinal Weight

Concerning the longitudinal component, longitudinal variables DB090, RB060 and PB050 are computed with the same way as the respective cross-sectional weights (DB090, RB050 and PB040). Then longitudinal weight variables RB062 and RB063 are computed on the basis of RB060, but as indicated from the respective documents, they are computed only for year 2007 and panels "5,6,7" and "5,6" respectively.

2.1.8.5. Non-response adjustments

Concerning the non-response adjustment for the second and following waves of the longitudinal component, especially concerning variables RB060 and PB050, the previous year's respective values are corrected (inflated) with an adjustment coefficient in order to take into account the population "attrition". This coefficient is computed for every year and panel separately based on the specific for that year and panel population characteristics. Also this coefficient is different for each one of the two variables RB060 and PB050 since those two refer to different populations (RB060 to all persons irrespectively of their age, while PB050 to adults that accepted to participate in the survey).

2.1.8.6. Adjustments to external data (level, variables used and sources)

The adjusted weights described in the previous paragraph are calibrated according to external sources. For RB060 the auxiliary variables used are estimations of the population total for that year and this population distribution according to sex and age (five years) groups.

The estimated population value used is the one produced by summing up the corrected sample weights described in the previous paragraph 2.1.8.5, while the population distribution is identical to the distribution already known from the first wave of the panel.

The same procedure is applied for the variable PB050.

2.1.8.7. Final longitudinal weight

As described in 2.1.8.6, the final longitudinal weights produced are RB060 and PB050. Tracing rules are applied through the duration of the longitudinal period. e.g. individuals with RB110=3,5,6,7 should have RB060=0. e.t.c.

2.1.8.8. Final household cross-sectional weight

As already written, cross-sectional weights have been calculated from the beginning of the survey (first year for Greece is 2003), with the procedure already known and described not only in this report but also in the previous respective reports.

So final cross-sectional weights DB090, RB050 and PB040 have been produced as already described.

An additional note for Longitudinal Weights 2004-2007

At the beginning of paragraph 2.1.8 we noted that the cross-sectional weights and their calculation procedure is the basis for the production of the longitudinal weights. This note summarizes the procedure for the longitudinal weights described in the previous paragraphs. For the first wave of each panel in the longitudinal component the individual's weights sum up to the cross-sectional population of this year. This is because the initial to the calibration weights of the ¼ of the year's cross-sectional sample (the certain panel) have been multiplied by 4 in order to represent the whole sample and have then been used as initial weights in calibration procedure with auxiliary variable all those used for the cross-sectional component (household size, tenure status, households' population distribution according to Region and to the individuals' population distribution by sex and age groups). The same process has been applied for adult individuals (16+ years old).

In the 2nd and following waves the previous year's values are corrected as described in the respective paragraphs and then calibrated to the estimated year's longitudinal population,

according to sex and age groups and always taking into account the tracing rule that should be followed.

For household longitudinal weights (variable DB090 which is also cross-sectional and longitudinal) the idea is different, since DB090 corresponds to a cross-sectional weight but for the longitudinal component only for the households present in the longitudinal file. So, for example, in the longitudinal component and in year 2005 for rotation panels 5 and 6, DB090 (longitudinal) sums up to the cross-sectional household population of 2005. The initial to the cross-sectional calibration procedure household weights are multiplied by an appropriate coefficient in order to represent the whole sample and are calibrated with the known cross-sectional calibration totals in order to produce DB090 values for the longitudinal component. DB090 longitudinal values are only for one year and not traced for 2, 3 or for years duration in the longitudinal component.

2.2 Sampling Errors

2.2.1. Estimation of survey characteristics

This paragraph presents the general procedure applied in order to estimate the survey characteristics and the sampling errors required for the cross-sectonal component of the survey.

Let Y_{hij} be the value of the characteristic \mathbf{y} (of the sampling household of order j in case of a household survey characteristic or for the sampling member of order j in case of a household member survey characteristic, $j=1,2,...,m_{hi}$) of the hi area. Moreover \boldsymbol{Y}_h stands for the stratum total, which is derived by adding the characteristic y from all households or household members included in the stratum h.

The form of the estimator on the basis of the two-stage design is:

$$\hat{Y}_{h} = \sum_{i=1}^{n_{h}} \sum_{j=1}^{m_{hi}} w_{hij} \cdot y_{hij}$$
 (6)

For estimating the characteristic \mathbf{y} at country level, all stratum estimates Y_h should be added, as follows:

$$\hat{Y} = \sum_{h} \hat{Y}_{h}^{(7)}$$

The estimation of the number of households or household members \boldsymbol{X}_h in stratum h is calculated by using the formula:

$$\hat{X}_{h} = \sum_{i=1}^{n} \sum_{j=1}^{m_{hi}} w_{hij}$$
(8)

while the estimation of the relevant characteristic at country level is calculated by adding all strata estimations, that is:

$$\hat{X} = \sum_{h} \hat{X}_{h} \qquad _{(9)}$$

In order to estimate the variances of the required characteristics, the following steps should be implemented.

a. For every selected PSU i of the stratum h, we calculate the quantities T_{hi} using the following formula:

$$T_{hi} = \mathcal{N}_h \cdot \sum_{j=1}^{mhi} \mathcal{W}_{hij} \cdot \mathcal{Y}_{hij (10)}$$

b. Since $T_{\scriptscriptstyle hi}$ have been calculated for every PSU i (i = 1,2,..., $n_{\scriptscriptstyle h}$) of the stratum h , then :

$$V\begin{pmatrix} \hat{Y}_h \end{pmatrix}$$
 is calculated as:

$$V\left(\hat{Y}_{h}\right) = \frac{1}{n_{h} \cdot (n_{h} - 1)} \cdot \left[\sum_{i=1}^{n_{h}} T_{hi}^{2} - \frac{1}{n_{h}} \cdot \left(\sum_{i=1}^{n_{h}} T_{hi}\right)^{2}\right]$$
(11)

and

$$V(\stackrel{\wedge}{Y})_{\text{(country level) is calculated by adding }}V(\stackrel{\wedge}{Y}_h)_{\text{ for all strata }h\,,\text{ that is:}}$$

$$V\left(\stackrel{\wedge}{Y}\right) = \sum_{h} V\left(\stackrel{\wedge}{Y}_{h}\right) (12)$$

2.2.2. Standard Error

<u>Standard errors</u> of mean as well as coefficients of variation were calculated for the required characteristics for the cross-sectional component of the survey, year 2007.

For an estimate \hat{Y} , the coefficient of variation is defined as:

$$CV\left(\hat{Y}\right) = \frac{\sqrt{V\left(\hat{Y}\right)}}{\hat{Y}} *100 (13)$$

The following tables present the mean, the number of observations before imputation, the standard error of mean and the coefficient of variation for the required characteristics (cross-sectional component).

Table 5. The mean, the total number of observations (before and after imputation) and the standard errors for the following income components. Cross- sectional component, *EU –SILC* 2004

Income Components Description Code		Mean	Number of observations Before Imputation	Standard Error (of mean)	CV (%)
Total disposable household income	HY020	17800,42	6,252	213.01	1.2
Total disposable household income before social transfers other than old- age and survivors' benefits	HY022	17360,13	6,252	214.23	1.2
Total disposable household income including old-age and survivors' benefits	HY023	13296,94	6,252	222.52	1.7
Net Income Components at Househo	old Level				
Imputed rent	HY030N	3118,17	6,252	0.00	
Net income from rental of a property or land	HY040N	1106,53	6,252	45.97	5.6
Family/children-related allowances	HY050N	86,55	6,252	5.92	6.4
Social exclusion not elsewhere classified	HY060N	77,42	6,252	4.48	6.8
Housing allowances	HY070N	9,44	6,252	1.37	19.0
Regular inter-household cash transfer received	HY080N	225,65	6,252	19.36	6.4

Income Components Description Code		Mean	Number of observations Before Imputation	Standard Error (of mean)	CV (%)		
Net interest, dividends, profit from capital investments in unincorporated business	HY090N	19,80	6,252	4.32	16.3		
Net income received by people aged under 16	HY110N	2,61	6,252	0.42	67.3		
Regular taxes on wealth	HY120N	,00	6,252	0.00	0.0		
Regular inter-household cash transfer paid	HY130N	555,33	6,252	28.74	6.1		
Repayments/receipts for tax adjustments	HY145N	381,02	6,252	26.00	9.7		
Net Income Components at Personal Level							
Net cash or near cash employee income	PY010N	4044,46	13,996	76.46	2.0		
Net non-cash employee income	PY020N	6,29	13,996	0.98	19.0		

Table 5 continued. The mean, the total number of observations (before and after imputation) and the standard errors for the following income components. Crosssectional component, EU –SILC 2004

Income Components			Number of observations	Standard Error	CV
Description	Code	Mean	Before Imputation	(of mean)	(%)
Contributions to individual private pension plans	PY035N	28,52	13,996	2.58	7.3
Net cash profits or losses from self- employment (including royalties)	PY050N	1729,56	13,996	72.12	3.9
Value of goods produced for own consumption	PY070N	58,95	13,996	0.00	
Net pension from individual private plans (other than those covered under ESPROS)	PY080N	1,22	13,996	1.33	53.9
Net unemployment benefits	PY090N	59,49	13,996	4.62	9.6
Net old-age benefits	PY100N	1530,20	13,996	41.91	2.7
Net survivor's benefits	PY110N	288,73	13,996	15.52	5.4
Net sickness benefits	PY120N	6,09	13,996	1.86	20.9
Net disability benefits	PY130N	54,04	13,996	5.24	9.3
Education-related allowances	PY140N	0,10	13,996	2.51	40.5

Table 6. Mean, total number of observations and sampling errors for equivalised disposable income breakdowns. Cross- sectional component, EU –SILC 2004

Equivalised disposable income	Mean	Number of observations Before Imputation	Standard Error (of mean)	CV (%)
Subclasses by household size				
1 household member	8,793.80	1,297	200.51	2.3
2 household members	9,887.73	1,889	177.94	1.8
3 household members	11,228.98	1,272	290.24	2.6
4 and more	10,061.83	1,794	172.00	1.7
Population by age group				
<25	9,868.21	4,701	148.67	1.5
25 to 34	10,900.00	2,322	223.49	2.1
35 to 44	11,205.61	2,423	206.10	1.8
45 to 54	10,827.19	2,272	220.44	2.0
55 to 64	10,523.57	1,866	316.11	3.0
65+	8,522.32	3,265	133.97	1.6
Population by sex				
Male	10,359.31	8,158	131.22	1.3
Female	10,019.36	8,691	119.33	1.2

Table 7. The mean, the total number of observations (before and after imputation) and the standard errors for the following income components. Cross-sectional component, EU –SILC 2005

Income Components		Maan	Number of observations	Standard	CV (0/)		
Description	Code	Mean	Before Imputation	Error (of mean)	CV (%)		
Total disposable household income	HY020	19.267,85	5.568	255,52	1,3		
Total disposable household income before social transfers other than old- age and survivors' benefits	HY022	18.740,54	5.568	257,16	1,4		
Total disposable household income including old-age and survivors' benefits	HY023	14.295,98	5.568	263,46	1,8		
Net Income Components at Household Level							
Imputed rent	HY030N	3.371,95	5.568	60,25	1,8		
Net income from rental of a property or land	HY040N	889,72	5.568	54,04	6,1		
Family/children-related allowances	HY050N	121,24	5.568	7,43	6,1		
Social exclusion not elsewhere classified	HY060N	69,93	5.568	4,85	6,9		
Housing allowances	HY070N	11,03	5.568	2,20	19,9		
Regular inter-household cash transfer received	HY080N	357,16	5.568	25,52	7,1		
Net interest, dividends, profit from capital investments in unincorporated business	HY090N	40,65	5.568	7,69	18,9		
Net income received by people aged under 16	HY110N	0,98	5.568	0,95	96,9		
Regular taxes on wealth	HY120N	4,66	5.568	0,99	21,3		
Regular inter-household cash transfer paid	HY130N	481,43	5.568	39,36	8,2		
Repayments/receipts for tax adjustments	HY145N	562,10	5.568	33,65	6,0		
Net Income Components at Personal Level							
Net cash or near cash employee income	PY010N	4.208,00	12.381	88,88	2,1		
Net non-cash employee income	PY020N	9,85	12.381	1,62	16,5		

Table 7 continued. The mean, the total number of observations (before and after imputation) and the standard errors for the following income components. Cross- sectional component, EU –SILC 2005

Income Components		Mean	Number of observations	Standard Error	CV (%)
Description	Code	Wiean	Before Imputation	(of mean)	C V (70)
Contributions to individual private pension plans	PY035N	36,93	12.381	3,32	9,0
Net cash profits or losses from self- employment (including royalties)	PY050N	2.093,31	12.381	90,68	4,3
Value of goods produced for own consumption	PY070N	62,22	12.381	3,35	5,4
Net pension from individual private plans (other than those covered under ESPROSS)	PY080N	4,88	12.381	2,23	45,7
Net unemployment benefits	PY090N	50,79	12.381	4,07	8,0
Net old-age benefits	PY100N	1.698,69	12.381	53,24	3,1
Net survivor's benefits	PY110N	296,97	12.381	18,78	6,3
Net sickness benefits	PY120N	9,41	12.381	1,90	20,2
Net disability benefits	PY130N	76,31	12.381	7,46	9,8
Education-related allowances	PY140N	9,48	12.381	3,89	41,0

Table 8. Mean, total number of observations and sampling errors for equivalised disposable income breakdowns. Cross-sectional component, EU –SILC 2005

Equivalised disposable income	Mean	Number of observations Before Imputation	Standard Error (of mean)	CV (%)
Subclasses by household size				
1 household member	9.640,48	1.187	241,80	2,5
2 household members	10.643,41	1.685	203,11	1,9
3 household members	12.307,71	1.136	288,73	2,3
4 and more	11.090,50	1.560	242,46	2,2
Population by age group				
<25	10.883,04	4.071	206,07	1,9
25 to 34	11.955,88	2.002	240,19	2,0
35 to 44	11.959,95	2.093	252,63	2,1
45 to 54	11.960,31	2.004	279,06	2,3
55 to 64	11.519,89	1.632	292,64	2,5
65+	9.330,34	3.095	175,37	1,9
Population by sex				
Male	11.336,77	7.244	154,80	1,4
Female	10.957,84	7.653	150,10	1,4

Table 9. The mean, the total number of observations (before and after imputation) and the standard errors for the following income components. Cross-sectional component, *EU-SILC* 2006

Income Components			Number of observations	Standard		
Description	Code	Mean	Before Imputation	Error (of mean)	CV (%)	
Total disposable household income	HY020	20.315,72	5.700	288,58	1,4	
Total disposable household income before social transfers other than old- age and survivors' benefits	HY022	19.712,77	5.700	292,35	1,5	
Total disposable household income including old-age and survivors' benefits	HY023	15.072,19	5.700	291,86	1,9	
Net Income Components at Househo	old Level					
Imputed rent	HY030N	1.083,40	5.700	77,78	7,2	
Net income from rental of a property or land	HY040N	130,15	5.700	11,56	8,9	
Family/children-related allowances	HY050N	98,82	5.700	6,88	7,0	
Social exclusion not elsewhere classified	HY060N	16,17	5.700	2,51	15,5	
Housing allowances	HY070N	432,57	5.700	32,60	7,5	
Regular inter-household cash transfer received	HY080N	68,54	5.700	23,93	34,9	
Net interest, dividends, profit from capital investments in unincorporated business	HY090N	2,69	5.700	1,69	63,1	
Net income received by people aged under 16	HY110N	4,83	5.700	0,91	18,8	
Regular taxes on wealth	HY120N	394,71	5.700	25,90	6,6	
Regular inter-household cash transfer paid	HY130N	544,57	5.700	36,66	6,7	
Repayments/receipts for tax adjustments	HY145N	1.083,40	5.700	77,78	7,2	
Net Income Components at Personal Level						
Net cash or near cash employee income	PY010N	4.273,05	12.606	90,74	2,1	
Net non-cash employee income	PY020N	9,78	12.606	1,52	15,5	

Table 9 continued. The mean, the total number of observations (before and after imputation) and the standard errors for the following income components. Cross-sectional component, EU –SILC 2006

Income Components		Mean	Number of observations	Standard Error	CV (%)
Description	Code	Wiean	Before Imputation	(of mean)	C V (70)
Contributions to individual private pension plans	PY035N	34,66	12.606	3,16	9,1
Net cash profits or losses from self- employment (including royalties)	PY050N	2.133,92	12.606	100,35	4,7
Value of goods produced for own consumption	PY070N	3,38	12.606	1,94	57,6
Net pension from individual private plans (other than those covered under ESPROSS)	PY080N	47,37	12.606	3,64	7,7
Net unemployment benefits	PY090N	1.800,02	12.606	55,04	3,1
Net old-age benefits	PY100N	263,69	12.606	15,88	6,0
Net survivor's benefits	PY110N	9,15	12.606	1,86	20,3
Net sickness benefits	PY120N	9,15	12.606	1,86	20,3
Net disability benefits	PY130N	93,26	12.606	8,62	9,2
Education-related allowances	PY140N	9,34	12.606	2,36	25,3

Table 10. Mean, total number of observations and sampling errors for equivalised disposable income breakdowns. Cross- sectional component, EU –SILC 2006

Equivalised disposable income	Mean	Number of observations Before Imputation	Standard Error (of mean)	CV (%)
Subclasses by household size				
1 household member	10.073,86	1.232	276,11	2,7
2 household members	11.320,33	1.737	222,40	2,0
3 household members	12.710,16	1.143	318,10	2,5
4 and more	11.655,28	1.588	280,85	2,4
Population by age group				
<25	11.335,61	4.058	242,71	2,1
25 to 34	12.244,64	2.035	259,14	2,1
35 to 44	12.436,92	2.111	291,23	2,3
45 to 54	12.519,92	2.025	332,78	2,7
55 to 64	12.764,42	1.742	341,66	2,7
65+	9.719,20	3.219	178,54	1,8
Population by sex				
Male	11.820,98	7.402	174,21	1,5
Female	11.512,87	7.788	176,95	1,5

Table 11. The mean, the total number of observations (before and after imputation) and the standard errors for the following income components. Cross-sectional component, *EU –SILC* 2007

Income Components			Number of	Standard		
Description	Code	Mean	observations Before Imputation	Error (of mean)	CV (%)	
Total disposable household income	HY010	28.742,85	5.643	475,83	1,66	
Total disposable household income before social transfers other than old- age and survivors' benefits	HY020	21.140,37	5.643	298,38	1,41	
Total disposable household income including old-age and survivors' benefits	HY022	20.487,12	5.643	301,69	1,47	
Total disposable household income including old-age and survivors' benefits	HY023	15.404,06	5.643	299,94	1,95	
Net Income Components at Househo	old Level					
Imputed Rent	HY030G	3.647,88	5.643	54,06	1,48	
Gross income from rental of a property or land	HY040G	1.126,32	5.643	72,69	6,45	
Family/children-related allowances	HY050G	148,61	5.643	9,70	6,53	
Social exclusion not elsewhere classified	HY060G	98,98	5.643	7,64	7,72	
Housing allowances	HY070G	23,61	5.643	3,23	13,66	
Regular inter-household cash transfer received	HY080G	450,04	5.643	32,07	7,13	
Gross interest, dividends, profit from capital investments in unincorporated business	HY090G	100,08	5.643	20,23	20,22	
Gross income received by people aged under 16	HY110G	0,80	5.643	0,57	71,33	
Regular taxes on wealth	HY120G	6,17	5.643	1,25	20,24	
Regular inter-household cash transfer paid	HY130G	456,27	5.643	27,91	6,12	
Gross income from rental of a property or land	HY140G	7.140,03	5.643	197,06	2,76	
Net Income Components at Personal Level						
Gross cash or near cash employee income	PY010G	6.155,04	12.346	151,72	2,46	
Gross non-cash employee income	PY021G	11,07	12.346	1,96	17,73	

Table 11 continued. The mean, the total number of observations (before and after imputation) and the standard errors for the following income components. Cross-sectional component, EU-SILC 2007

Income Components		Mean	Number of observations	Standard Error	CV (%)
Description	Code	Wican	Before Imputation	(of mean)	C ((/ u)
Gross cash profits or losses from self- employment (including royalties)	PY050G	3.097,91	12.346	139,79	4,51
Gross unemployment benefits	PY090G	51,91	12.346	4,24	8,16
Gross old-age benefits	PY100G	2.168,31	12.346	67,33	3,11
Gross survivor's benefits	PY110G	289,43	12.346	16,68	5,76
Gross sickness benefits	PY120G	11,06	12.346	2,52	22,79
Gross disability benefits	PY130G	106,47	12.346	9,33	8,76
Education-related allowances	PY140G	10,00	12.346	3,49	34,91
Gross cash profits or losses from self- employment (including royalties)	PY050G	3.097,91	12.346	139,79	4,51

Table 12. Mean, total number of observations and sampling errors for equivalised disposable income breakdowns. Cross- sectional component, EU –SILC 2007

Equivalised disposable income	Mean	Number of observations Before Imputation	Standard Error (of mean)	CV (%)
Subclasses by household size				
1 household member	10.427,00	1.280	272,29	2,61
2 household members	12.417,83	1.710	298,39	2,40
3 household members	12.906,73	1.131	338,83	2,63
4 and more	11.988,56	1.522	268,02	2,24
Population by age group				
<25	11.507,94	3.840	244,36	2,12
25 to 34	12.844,85	1.961	255,51	1,99
35 to 44	12.626,46	2.090	265,02	2,10
45 to 54	12.780,38	1.978	291,55	2,28
55 to 64	13.744,01	1.756	458,32	3,33
65+	10.482,77	3.168	206,23	1,97
Population by sex				
Male	12.291,82	7.228	180,76	1,47
Female	11.972,18	7.565	183,92	1,54

Regarding the National Final Quality Report 2007 as stated in the Regulation 1177/2003, Member States must send for the EU-SILC cross-sectional component and for each wave of the EU-SILC longitudinal component, information on the mean, the total number of observations (before and after imputation) and the standard errors for the income components and for the breakdown of the equivalised disposable income.

For 2007 operation, Eurostat is preparing and will compute the standard errors for the longitudinal component and that they will be included in the Comparative EU Final Quality Report 2007, to be presented in the Working Group in June 2010. Standard errors for social cohesion indicators will be computed on the basis of Jacknife programs developed by Eurostat.

2.3 Non- sampling errors

2.3.1. Sampling frame and coverage errors

EU-SILC is a household survey and, as it has already been mentioned, is carried out by applying the two-stage stratified sampling with Primary Sampling Unit (PSU) the area (one or more building blocks) and final unit the household. Thus, two frames are used, which are:

- 1. the frame containing the PSUs (areas) and
- 2. the frame of households within the selected PSUs.

The frame of PSUs is updated every ten (10) years through the general population census. Concerning the frame of households, within each selected PSU this is updated before the selection of the sampling households used for data collection.

So, any coverage problems that may arise is more possible to relate with the frame of PSUs. However, any such problems are corrected with the use of the calibration procedure already described.

2.3.2 Measurement and processing errors

2.3.2.1. Measurement errors

As the EU-SILC project is an integrated model, both the cross-sectional component and the longitudinal component are in the same survey, issues on measurement errors reported in the intermediate report are valid, hence not reported again.

Measurement errors can occur from: the questionnaire, the interviewers and their training, the respondents, the routing, and the skills testing before starting the fieldwork.

These errors arise from:

- the questionnaire
- the interviewers
- the respondents
- the routing
- the checks and codification
- data collection

(1) The questionnaire

For building up the questionnaires we adopted the initially proposed questionnaires of Eurostat as the basis (documents EU-SILC055 and EU-SILC065). The structure of the questionnaires is similar to these ones. The majority of the questions are almost literally copied and translated.

In order to finalize the questionnaires, we took into account any observations made on the questionnaires of the previous years, together with the experience from the ECHP projects. Mainly the parts on self-employment income and taxes have been differently formulated. The questionnaires for the 2007 survey were the same as those of 2004, 2005 and 2006 survey, except for some small changes in the wording.

(2) The interviewers and their training

Interviewers were both external collaborators and personnel of the National Statistical Service, all experienced with other household surveys carried out by our Institute, at a percentage of 90%. More specifically 50% of interviewers were personnel and the other 50% external collaborators.

All the external collaborators (interviewers) of Attiki Prefecture attended a three days training course before starting the fieldwork. Three days training was both on the basic concepts of the survey and the questionnaire completion and on the use and data entry in the electronic questionnaires.

Another three days training in Athens, followed for the Regional Offices Heads, which in turn trained both their personnel as well as the external collaborators.

Two manuals were distributed and explained during the training:

- A general guidelines' manual containing information about the objectives of the survey, the organization of the survey, legal and administrative aspects around the survey, fieldwork aspect (how to contact the household, how to introduce oneself who answers which questions, time delays, ...) and the content and correct completion of the questionnaires.
- A second manual on the use of portable PCs for the EU-SILC Computer Assisted Personal Interviews and about the data entry program itself.

(3) The respondents

The respondents hesitate in providing income figures and in general deny consulting their tax

return, in order to provide exact / correct amounts. Income from interests, dividends in

unincorporated businesses is in general not provided from the households, resulting thus in a

significant underestimation of it. There is a sense that still self-employment income has been

under-estimated.

(4) Errors in routing

No errors in routing were made

(5) Checks and codification

The National Statistical Service of Greece made several plausibility checks. Especially for

income data lower and upper bounds of the range in which an amount of income was accepted

were applied. These checks were carried out during the survey conduction, as the guidelines of

the survey included such bounds for specific income data and afterwards centrally by personnel

of the NSSG. Whenever necessary, households were called back.

Changes occurring in persons' activity status longitudinally resulted in a number of

inconsistencies. For example, persons having been working in year N-1 but retired in year N,

persons being students in year N-1 and employed in year N, income in year N-1 from persons who

died in year N, etc. may result in these inconsistencies representing though reality. In any case the

pre-mentioned examples resulted both in under and over reporting of income.

(6) Data collection

Proxy interviews are very under reported.

2.3.3.2. Unit non response

- -Response rate for households
- Wave response rates

%

In table 13, is presented the percentage of households successfully interviewed (DB 135=1) which were passed on to wave t (from wave t-1) or newly created or added during wave t, excluding those out of scope (under the tracing rules) or non-existent.

Table 13. Percentage of households successfully interviewed in EU SILC 2004-2007

DB 110	Households successfully interviewed in EU SILC 2005	Households successfully interviewed in EU SILC 2006	Households successfully interviewed in EU SILC 2007
Household from previous wave - At the same address as last interview - Entire household moved to a private household within the country	85,7	93,3	89,3
Split-off household	100,0	100,0	100,0
New address added to the sample this wave or first wave	71,3	77,5	74,2

-Longitudinal follow-up rate

Percentage of households which are passed on to wave t+1 for follow-up within the household received into wave t from wave t-1 excluding those out of scope (under the tracing rules) or non-existent.

Table 14. Longitudinal follow-up rate

Longitudinal follow-up rate	EU- SILC	EU- SILC	EU- SILC
	2005	2006	2007
·	86,8	92,1	88,3

-Follow-up ratio

Number of households passed on from wave t to wave t+1 in comparison to the number of households received for follow-up at wave t from wave t-1.

Table 15. Follow-up ratio

Follow-up ratio	t+1	t-1	ratio	
EU SILC 2007	3970	4495	0,88	
Follow-up ratio	t+1	t-1	ratio	
EU SILC 2006	2694	2925	0,92	
Follow-up ratio	t+1	t-1	ratio	
EU SILC 2005	1397	1609	0,87	

-Achieved households sample size ratio

Ratio of the number of households accepted for the database (DB 135=1) in wave t to the number of households accepted for the database (DB 135=1) in wave t-1.

Table 16. Achieved sample size ratio

Achieved sample size	EU SILC 2007	EU SILC 2006	Ratio
	3970	4495	0,88
Achieved sample size	EU SILC	EU SILC	Ratio
ratio	2006	2005	Ratio
	3899	4229	0,92
Achieved sample size	EU SILC	EU SILC	Ratio
ratio	2005	2004	Kano
	4040	4720	0,86

-Response rate for persons and Wave response rate

In table 17, is presented the percentage of sample persons successfully interviewed (RB 250=11,12,13) among those passed on to wave t (from wave t-t) or newly created or added during wave t, excluding those out of scope (under the tracing rules).

Percentage of co-residents selected in wave t successfully interviewed (RB 250=11,12,13) among those passed on to wave t (from wave t-t).

Table 17. Percentage of sample persons and co-residents successfully interviewed in EU SILC 2005

%

Household status (DB 110)	Sample persons successfully interviewed in EU SILC 2005	Co-residents successfully interviewed in EU SILC 2005
Household from previous wave - At the same address as last interview - Entire household moved to a private household within the country	99,3	100,0
Split-off household	100,0	100,0
New address added to the sample this wave or first wave	99,6	-

Table 18. Percentage of sample persons and co-residents successfully interviewed in EU SILC 2006

%

Household status (DB 110)	Sample persons successfully interviewed in EU SILC 2006	Co-residents successfully interviewed in EU SILC 2006
Household from previous wave - At the same address as last interview - Entire household moved to a private household within the country	99,5	97,7
Split-off household	100,0	100,0
New address added to the sample this wave or first wave	98,5	-

Table 19. Percentage of sample persons and co-residents successfully interviewed in EU SILC 2007

%

Household status (DB 110)	Sample persons successfully interviewed in EU SILC 2007	Co-residents successfully interviewed in EU SILC 2007
Household from previous wave - At the same address as last interview - Entire household moved to a private household within the country	99,4	100,0
Split-off household	100,0	100,0
New address added to the sample this wave or first wave	99,5	-

-Longitudinal follow-up rate

Percentage of sample persons successfully interviewed (RB 250=11,12,13) in wave *t* out of all of sample persons selected, excluding those who have died or been found ineligible (out of scope).

Table 20. Longitudinal follow-up rate

Longitudinal follow-up rate EU SILC 2007	% 99,4
Longitudinal follow-up rate EU SILC 2006	% 99,1
Longitudinal follow-up rate EU SILC 2005	% 99,5

-Achieved personal sample size ratio

In table 21, is presented the ratio of the number of completed personal interviews (RB 250=11,12,13) in wave t to the number of completed personal interviews in wave t-1

This ratio will be defined for sample persons and for all persons including non-sample persons aged 16+ and for co-residents aged 16+ selected in first wave.

Table 21. Ratio of the number of completed personal interviews in wave t to the number of completed personal interviews in wave t-1

	EU SILC 2007	EU SILC 2006	Ratio
All	8771	8717	100,6
Sample persons	8464	8526	99,3
Co-residents	307	191	160,7
	EU SILC 2006	EU SILC 2005	Ratio
All	9831	9376	104,8
Sample persons	9678	9251	104,6
Co-residents	153	125	122,4
	EU SILC 2005	EU SILC 2004	Ratio
All	6405	7083	90,4
Sample persons	6358	7029	90,5
Co-residents	47	54	87,0

⁻Response rate for non-sample persons

Ratio of the number of completed personal interviews (RB 250=11,12,13) of non sample persons aged 16+ in wave t to all non-sample persons aged 16+ listed in the households accepted for the database (DB 135=1) in wave t which were forwarded from wave t-1 to wave t for follow-up but could not be successfully interviewed in wave t.

Table 22 . Response rate for non-sample persons

Response rate for non-sample	EU SILC	EU SILC	Ratio
persons	2007	2006	Ratio
	307	310	0,99
Response rate for non-sample	EU SILC	EU SILC	Ratio
persons	2006	2005	Ratio
	153	156	0,98
Response rate for non-sample	EU SILC	EU SILC	Ratio
persons	2005	2004	ixatio
	47	0	0,98

2.3.3.3. Distribution of households by household status (DB 110), by record of contact at address (DB 120), by household questionnaire result (DB 130) and by household interview acceptance (DB 135).

For each wave of EU SILC longitudinal component, the distribution of households by household status, by record of contact at address, by household questionnaire result and by household interview acceptance will be provided.

Table 23. Distribution of households by household status, by record of contact at address, by

household questionnaire result and by household interview acceptance

nouse	hold questionnaire res	EU SILC	EU SILC	EU SILC	EU SILC
Variable	Values	2004	2005	2006	2007
Entire household moved to a private household within the country Entire household moved to a collective household or institution within the country		-	1539	2797	4282
	-	26	52	96	
	moved to a collective household or institution within the country	-	1	5	4
	Household moved outside the country	-	1	3	4
Household	Entire household died	-	4	9	16
status (DB 110)	Household does not contain sample person	-	-	4	-
	Address not contacted (unable to access or lost, i.e. no record of what happened to the household)	-	38	54	85
	Split-off household		18	36	56
	New address added to the sample this wave or first wave	2151	2142	2324	-
	Fusion	-	-	1	1

Table 23 continued. Distribution of households by household status, by record of contact at address, by household questionnaire result and by household interview acceptance

Variable	Values	EU SILC 2004	EU SILC 2005	EU SILC 2006	EU SILC 2007
	Address contacted	2067	2132	2365	152
	Address cannot be located	13	29	-	<u>-</u>
Record of contact at address DB 120	Address unable to access	2	-	-	-
. A. C.	Address does not exist or is non-residential address or is unoccupied or not principal residence	69	25	47	-
	Household questionnaire completed	1609	2925	4495	3970
	Refusal to cooperate	253	420	383	281
Household questionnaire result (DB 130)	Entire household temporarily away for duration of fieldwork	157	250	247	155
130)	Household unable to respond (illness, incapacity, etc)	24	47	26	31
	Other reasons	24	29	11	4
Household interview acceptance (DB 135)	Interview accepted for database	1609	2925	4495	3970

2.3.3.4. Distribution of persons for membership status (RB 110)

For the second and following waves of the EU-SILC longitudinal component, the distribution of persons by membership status will be provided.

Table 24. Distribution of persons by membership status.

Membership status (RB 110)	EU SILC	EU SILC	EU SILC	EU SILC
Membership status (RB 110)	2004	2005	2006	2007
Was in this household in previous				
waves or current household	4234	7610	11659	10266
member				
Moved into this household from				
another sample household since	-	27	43	64
previous wave				
Moved into this household from				
outside sample since previous	-	59	139	160
wave				
Newly born into this household		24	47	80
since last wave	_	24	47	80
Moved out since previous wave or				
last interview if not contacted in	-	57	117	157
previous wave				
Died	-	27	58	64
Lived in the household at least				
three months during the income				
reference period but was not	-	-	-	-
recorded in the register of this				
household				
Total	4234	7804	12063	10791

2.3.3.5 Item non-response

For income variables the following information will be provided for each wave of the EU SILC longitudinal component.

Table 25. Percentage of households having received an amount

	EU SILC 2004	EU SILC 2005	EU SILC 2006	EU SILC 2007
Disposable household income	% of households having received an amount			
Total disposable household income (HY020)	99.7	99.7	99.8	99.8
Total disposable household income before social transfers except old-age and survivor's benefits (HY022)	99.3	99.2	99.3	99.5
Total disposable household income before social transfers including old-age and survivor's benefit (HY023)	85.4	85.8	85.7	87.7
Net income components at household level	% of households having received an amount			
Income from rental of a property or land (HY040N)	17.9	16.9	16.9	18.1
Family related allowances (HY050N)	8.9	8.3	9.0	12.4
Social exclusion not elsewhere classified (HY060N)	5.7	4.4	5.5	5.5
Housing allowance (HY070N)	0.7	1.0	1.3	1.60
Regular inter-household cash transfer received (HY080N)	7.9	8.7	10.4	9.9
Interests, dividendes, etc. (HY090N)	2.3	3.0	2.8	0.5
Income received by people aged < 16 (HY110N)	0.1	0.0	0.0	9.9
Taxes on wealth (HY120N)	0.0	1.0	0.9	0.0
Regular inter-household cash transfer paid (HY130N)	10.5	9.0	8.5	0.9

 Table 26.
 Percentage of persons 16+ having received an amount

	EU SILC 2004	EU SILC 2005	EU SILC 2006	EU SILC 2007
Net income components c	% of persons 16+ having			
	received an	received an	received an	received an
	amount	amount	amount	amount
Employee cash or near cash income (PY010N)	33.2	33.9	33.8	33.2
Net non-cash employee income (PY020N)	0.3	0.6	0.6	3.6
Cash benefits or losses from self-employment (PY050N)	16.4	16.5	16.6	3.2
Pension from individual private plans (PY080N)	0.1	0.1	0.0	8.5
Unemployment benefits (PY090N)	2.6	2.6	2.6	0.1
Old age benefits (PY100N)	22.2	20.5	20.5	2.5
Survivor's benefits (PY110N)	4.8	4.0	4.1	22.2
Sickness benefits (PY120N)	0.4	0.6	0.5	4.5
Disability benefits (PY130N)	1.1	1.6	1.8	0.4
Education-related allowances (PY140N)	0.0	0.1	0.2	2.2

2.4. Mode of data collection

For each wave of EU SILC longitudinal component the distribution of household members aged 16 or over by "data status" (RB 250) and by "type of interview" (RB 260) will be provided for each sample person, for co-residents and for the total.

Table 27. Distribution of members aged 16+ by "data status" Member

	Data status (RB 250)	EU SILC 2004	EU SILC 2005	EU SILC 2006	EU SILC 2007
	Information completed only from interview	3526	6358	9678	8464
	Individual unable to respond and no proxy possible	2	1	2	2
Comple persons	Refusal to cooperate	2	4	14	9
Sample persons	Person temporarily away and no proxy possible	7	27	64	37
	No contact for other reasons	-	1	8	2
	Information not completed, reason unknown	1	-	2	1
	Information completed only from interview	-	47	153	307
	Individual unable to respond and no proxy possible	-	-	-	1
C '1 '	Refusal to cooperate	-	-	1	1
Co-residents	Person temporarily away and no proxy possible	-	-	2	1
	No contact for other reasons	-	-	-	-
	Information not completed, reason unknown	-	-	-	-
	Information completed only from interview	3526	6405	9831	8771
Total	Individual unable to respond and no proxy possible	2	1	2	3
	Refusal to cooperate	2	4	15	10
	Person temporarily away and no proxy possible	7	27	66	38
	No contact for other reasons	-	1	8	2
	Information not completed, reason unknown	1	-	2	1

Table 28. Distribution of members aged 16+ by "type of interview"

Member	Type of interview (RB 260)	EU SILC 2004	EU SILC 2005	EU SILC 2006	EU SILC 2007
	Questionnaire completed (face-to-face interview-PAPI)	2200	4351	6702	6385
Sample	Questionnaire completed (face-to-face interview-CAPI)	1208	1593	2382	1220
persons	Questionnaire completed (CATI)	41	75	227	203
	Self-administered by respondent	4	-	-	137
	Proxy interview	73	339	367	519
	Questionnaire completed (face-to-face interview-PAPI)	-	25	92	214
	Questionnaire completed (face-to-face interview-CAPI)	-	17	38	39
Co-residents	Questionnaire completed (CATI)	-	3	6	17
	Self-administered by respondent	-	-	-	3
	Proxy interview	-	2	17	34
	Questionnaire completed (face-to-face interview-PAPI)	2200	4376	6794	6599
T-4-1	Questionnaire completed (face-to-face interview-CAPI)	1208	1610	2420	1259
Total	Questionnaire completed (CATI)	41	78	233	220
	Self-administered by respondent	4	-	-	140
	Proxy interview	73	341	384	553

2.5. Imputation procedure

No imputation procedure was applied.

3. COMPARABILITY

The definitions used are fully compared with Eurostat definitions.

3.1 Basic concepts and definitions

The reference population

The reference population is all citizens officially living at Greek territory (population de facto).

The source of our sample is the Census Population. This Census includes all private households

and their current members residing in the territory, independently of any socio-economic

characteristics they may have. Persons living in collective households and in institutions are

excluded from the target population, as well as households having members diplomatic

missioners.

The private household definition

The definition of household that Eurostat recommends is used. Household is defined as a person

living alone or a group of people who live together in the same dwelling and share expenditures

including the joint provision of the essentials of living.

The household membership

All household members of 16 year and older at the time of the interview, are selected for a

personal interview.

Subject to the further and specific conditions shown below, the following persons must if they

share household expenses, be regarded as household members:

• Persons usually resident, related to other members

Persons usually resident, not related to other members

• Resident boarders, lodgers, tenants

Visitors

• Line-in domestic servants, au-pairs

- Persons usually resident, but temporarily absent from the dwelling (for reasons of holiday travel, work, education or similar)
- Children of the household being educated away from home
- Persons absent for long periods, but having household ties: persons working away from home
- Persons temporarily absent but having household ties: persons
- in hospital, homes or other institutions

Further conditions for inclusion as household members are as follows:

(a) Categories 3,4, and 5:

Such persons must currently have no private address elsewhere; or their actual or intended duration of stay must be six months or more.

(b) Category 6:

Such persons must currently have no private address elsewhere and their actual or intended duration of absence from the household must be less than six months.

(c) Category 7 and 8:

Irrespective of the actual or intended duration of absence, such persons must currently have no private address elsewhere, must be the partner or child of a household member and must continue to retain close ties with the household and must consider this address to be his/her main residence.

(d) Category 9:

Such person must have clear financial ties to the household and must be actually or prospectively absent from the household for less than six months.

- Shares in household expenses

Share in household expenses include benefiting from expenses (e.g. children, persons with no income) as well as contributing to expenses. If expenses are no shared, then the person constitutes separate household at the same address.

- Usually resident

A person shall be considered as a usually resident member of the household if he/she spends most of his/her daily rest there, evaluated over the past six months. Persons forming new households or joining existing households shall normally be considered as members at their new location; similarly, those leaving to live elsewhere shall no longer be considered as members of the original household. The abovementioned 'past six month' criteria shall be replaced by the intention to stay for a period of six months or more at the new place of residence.

- Intention to stay for a period of six months or more

Account has to be taken of what may be considered as 'permanent' movements in or out of households. Thus a person who has moved into a household for an indefinite period or with their intention to stay for a period of six months or more shall be considered as a household member, even though the person has not yet stayed in the household for six months, and has in fact spent a majority of that time at some other place of residence. Similarly, a person who has moved out of the household to some other place of residence with the intention of staying away for six months or more, shall no longer be considered as a member of the previous household.

- Temporarily absent in private accommodation

If the person who is temporarily absent is in private accommodation, then whether he/she is a member of this (or other) household depends on the length of the absence. Exceptionally, certain categories of persons with very close ties to the household may be included as members irrespective of the length of absence, provided they are not considered members of another private household.

In the application of these criteria, the intention is to minimize the risk that individuals who have two private addresses at which they might potentially be enumerated are not double-counted in the sampling frame. Similarly, the intention is to minimize the risk of some persons being excluded from membership of any household, even though in reality they belong to the private household sector.

The income reference period used

The income reference period is a fixed twelve-month period, namely the previous calendar year.

The period for taxes on income and social insurance contributions

This is also fixed twelve-month period, namely the previous calendar year.

The reference period on taxes on wealth

The reference period on taxes on wealth is the previous calendar year

The lag between the income reference period and current variables

The income reference period is the previous calendar year and the current variables refer to the fieldwork period (April - June). Therefore the lag is at minimum 3 months and at maximum 6 months.

Total duration of the data collection of the sample

The interviews were carried out starting 1 Aprill and ending 30 June.

Basic information on activity status during the income reference period

This information can be obtained by combining the answer for question 19 (PL030) with the answer for question 49 (calendar question),(PL210A—PL210K)

3.2 Components of income

3.2.1 Income definitions

Total household gross income

We collected gross income for approximately the 20% of income variables but we didn't calculate total household gross income, so this factor is zero in total disposable household income.

Total disposable household income

$$HY020 = HY010 - HY140G - HY130G - HY120G + HY145G$$

Total disposable household income, before social transfers other than old age and survivors' benefit

$$HY022 = HY020 - PY090G + PY120G + PY130G + PY140G - HY050G - HY060G - HY070G$$

Total disposable household income, before social transfers including old age and survivors' benefit

HY023 = HY020 - PY090G+ PY120G + PY130G + PY140G + PY100G + PY110G - HY050G - HY060G - HY070G.

Imputed rent (HY030G)

The imputed rent refers to the value that shall be imputed for all households that do not report

paying full rent, either because they are owner-occupiers or they live in accommodation rented at

a lower price than the market price, or because the accommodation is provided rent-free.

The imputed rent shall be estimated only for those dwellings (and any associated buildings such a

garage) used as a main residence by the households.

The value to impute shall be the equivalent market rent that would be paid for a similar dwelling

as that occupied, less any rent actually paid (in the case where the accommodation is rented at a

lower price than the market price), less any subsidies received from the government or from a

non-profit institution (if owneroccupied or the accommodation is rented at a lower price than the

market price), less any minor repairs or refurbishment expenditure which the owner-occupier

households make on the property of the type that would

normally be carried out by landlords.

The market rent is the rent due for the right to use an unfurnished dwelling on the private market,

excluding charges for heating, water, electricity, etc.

Income from rental of property or land (HY040G)

Asked as Eurostat recommends, Income from rental of a property or land refers to the income

received, during the income reference period, from renting a property (for example renting a

dwelling -not included in the profit/loss of unincorporated enterprises- receipts from boarders

or lodgers, or rent from land) after deducting costs such as mortgage interest repayments,

minor repairs, maintenance, insurance and other charges.

Family/children related allowances (HY050G)

Family / children related allowance includes:

• Lifelong pension for mothers having more than 3 children

• Allowance for families having 3 children

• Allowance for families having more than 3 children

- Lump sum due to birth of third, four etc. child
- Family allowances for public servants
- Incapacitated relatives care benefit
- Pregnancy-puerperal benefit
- Parental leave allowance
- Birth grant
- Marriage benefit (lump-sum)

The allowance for family public servants, the allowance for pregnancy-puerperal and the allowance for parental leave, if registered to the particular question, will not be included to the income of employees.

Social exclusion payments not elsewhere classified (HY060G)

Social benefits in the function 'social exclusion not elsewhere classified include:

- Assistance lump sum to poor households in mountainous and disadvantageous areas
- Allowances to children under 16 years old who live in poor households (pre-school and school allowance)
- Allowance to repatriates
- Allowance to refugees
- Allowance to persons released from prison
- Allowance to drug-addicts and alcoholics
- Allowances to long-standing unemployed aged 45-65
- Allowance of social solidarity for pensioners
- Assistance to households having faced earthquake, flood, etc.

Housing allowances (HY070G)

The housing allowances include:

• Benefits paid to bank clerks or public servants working in border areas, or to military

servants

• Rent benefit, a means-tested transfer by a public authority to tenants, based on income

• Rent benefit, transfer by a public authority to households having faced an earthquake,

flood, etc, independently of income

• Benefit to owner-occupiers: a means-tested transfer by a public authority to owner-

occupiers to alleviate their current housing costs: in practice help with paying

mortgages and/or interest and/or rehabilitation subsidy and/or a building subsidy.

• Subsidy of interest rate for loans of first dwelling.

It excludes:

• Social housing policy organized through the fiscal system

• All capital transfers (in particular investment grants).

Regular inter - household cash transfers received (HY080G)

Regular inter-household cash transfers received refer to regular monetary amounts received,

during the income reference period, from other households or persons. More specifically, we

asked for "alimony -compulsory or voluntary", "child support, for children residing away from

home" and in general for any regular cash support.

Regular inter - household cash transfers received (HY081G)

This variable includes only alimony –compulsory or voluntary received.

Interest, dividends, profit from capital investments in incorporated businesses (HY090G)

Interests, dividends, profits from capital investment in an unincorporated business refer to the

mount of interest from assets such as bank accounts, certificates of deposit, bonds, etc,

dividends and profits from capital investment in an unincorporated business, in which the person does not work, received during the income reference period less expenses incurred.

Interest paid on mortgage (HY0100G)

Interest paid on mortgage refers to the total gross income, before deducting any tax credit or tax allowance of mortgage interest on the main residence of the household during the income

reference period.

It excludes:

• Any other mortgage payments, either interest or principal, made at the same time,

such as mortgage protection insurance or home and contents insurance

• Payments on mortgages to obtain money for housing purposes (repairs, renovations

etc.) or for non housing purposes

• Repayments of the principal or capital sum

Income received by people aged under 16 (HY0110G)

Income received by people aged under 16 is defined as the gross income received by all

household members aged under sixteen during the income reference period. Income received

from other household members for work in the family business is not included.

Regular taxes on wealth (HY0120G)

Regular taxes on wealth refers to taxes that are paid periodically on the ownership or use of land

or buildings by owners. The regular taxes on wealth provided will be those paid during the

income reference period.

Regular inter-household transfers paid (HY0130G)

Regular inter-household cash transfers paid refer to regular monetary amounts paid, during the

income reference period to other households or persons. More specifically, we asked for

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"alimony –compulsory or voluntary", "child support, for children residing away from home" and in general for any regular cash support.

Regular inter - household cash transfers paid (HY131G)

This variable includes only alimony –compulsory or voluntary paid

Tax on income and social insurance contributions (HY0140G)

Tax on income refers to taxes on income, profits and capital gains. They are assessed on the actual or presumed income of individuals, households or tax-unit. They include taxes assessed on holdings of property, land or real estate when these holdings are used as a basis for estimating the

income of their owners.

Taxes on income include:

• Taxes on individual, household or tax-unit income (income from self-employment,

property, entrepreneurship, pensions, etc.) included taxes deducted by employers (pay-

as-you earn taxes) other taxes at source and taxes on the income of owners of

unincorporated enterprise paid during the income reference period.

• Tax reimbursement received during the income reference period related to tax paid for

the income received during the income reference period or for income received in

previous year. This value will be taken into account as a reduction of taxes paid.

• Any interest charged on arrears of taxes due and any fines imposed by taxation

authorities.

Social insurance contributions refer to employees' and self-employed contributions paid during

the income reference period to either mandatory government or employer-based insurance

schemes (pension, health, etc.).

We have also taken into account of the money that people have received from the taxes or that

people have paid to the taxes in 2006 (based on their income of the year 2005).

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Repayments/receipts for tax adjustments (HY0145)

Repayments/receipts for tax adjustments refer to the money paid to/received from Taxes Authorities related to the income received.

Cash or near-cash employee income (PY010G)

Employee cash or near cash income refers to the monetary component of the compensation of employees in cash payable by an employer on behalf of the employee to social insurance schemes or tax authorities.

Included are:

- Wages and salaries paid in cash for time worked or work done in main and any secondary or casual job(s)
- Overtime
- Commission and tips
- Piece rate payments
- Payments for fostering
- Profit sharing and bonuses
- Allowance for working in remote locations, for transport
- Remuneration for time not worked (e.g. holiday payments)
- Additional payments based on productivity
- Supplementary payments (e.g. thirteenth month payment)
- Marriage allowance
- Allowance to the workers in the building constructions

Excluded are:

- Reimbursements made by the employer for work-related expenses (e.g. business travel)
- Severance and termination pay to compensate employees for employment ending before the employee has reached the normal retirement age for that job and redundancy payments

- Allowances for purely work-related expenses such as those for travel and subsistence or for protective clothes
- Lump sum payments at the normal retirement date
- Union strike pay

Non-cash employee income (PY020G)

Gross non-cash employee income includes:

Information on the following items has also been collected and included, for:

- company car and associated costs
- Free of charge or contribution meals within working hours
- Reduced values for electricity, telephone, water etc
- Produced goods provided free of charge or with reduced price to employees

Non-cash employee income (PY021G)

This variable includes <u>only</u> the company car and associated costs (e.g. car insurance, taxes and duties), provided for either private use or both private and work use.

Employer's social insurance contribution (PY030G)

Employers' contributions are defined as payments made, during the income reference period, by employers for the benefits of their employees to insurers.

Cash profits or losses from self-employment (including royalties) (PY050G)

It includes:

- Net operating profit or loss accruing to working owners of, or partners in, an unincorporated enterprise, less interest on business loans.
- Royalties earned on writing, inventions, and so on not included in the profit/loss of unincorporated enterprises.

 Rentals from business buildings, vehicles, equipment, etc not included in the profit/loss of unincorporated enterprises, after deduction of related costs such as interest on associated loans, repairs and maintenance and insurance charges.

Value of goods produced for own consumption (PY070G)

The value of goods produced for own consumption refers to the value of food and beverages produced and also consumed within the same household.

The value of goods produced for own consumption are calculated as the market value of goods produced deducting any expenses incurred in the production, not being though counted in total income. The item has t been included in the data files.

Pension from individual private plans (PY080G)

Regular pensions from private plans (other than those covered under ESSPROS

Unemployment benefits (PY090G)

As unemployment benefits included are:

- Full unemployment allowance
- Partial unemployment allowance
- Early retirement for labour market reasons
- Allowance vocational training for unemployed
- Reimbursement due to dismissal from work
- Seasonal unemployment benefit for persons seasonally working (e.g. actresses. musicians, building workers, hotel staff, etc.)
- Allowance for young persons aged 20-29 years
- Allowance of military service
- Placement, resettlement or rehabilitation benefit
- Any other benefit replacing in whole or in part income lost by a worker due to loss of gainful employment.

Old-age benefit (PY100G)

Old age benefit includes:

- Old age pension from public sector
- Supplementary pension from public sector
- Early retirement pension due to resignation
- Care allowance
- Parallel pension from private sector (paid by the employer)
- Lump sum due to retirement
- National resistance pension
- Any other old age benefit providing a replacement income when the aged person retires from the labour marker, or guarantee a certain income when a person has reached a prescribed age.

Survivors' benefits (PY110G)

It includes:

- Old age pension from public sector
- Supplementary pension from public sector
- Parallel pension from private sector (paid by the employer)
- Orphans pension
- Pension of war victims

Sickness' benefits (PY0120G)

Included are:

- Paid sick leave
- Benefit for working accidents
- Benefit for spa therapy, airing etc.
- Assistance for movement of sick persons

Disability benefits (PY0130G)

Included are:

- Disability pension
- Benefit for persons with special needs
- Care allowance for incapacitated persons
- Care allowance for incapacitated children
- Nutrition allowance for people suffering kidney's disease
- Any other cash benefit

Education-related allowances (PY0140G)

It includes:

- Benefit received for participation in research programs
- Scholarships

Gross monthly earnings from employees (PY0200G)

It refers to the monthly amount in the main job for employees. It includes usual paid overtime, tips, profit share, bonuses. Information on gross monthly earnings for employees has been used only for the calculation of gender pay gap.

3.2.2. Other definitions

Capacity to face unexpected financial expenses (HS060)

Household members' were asked if they had financial difficulties facing unexpected but necessary expenses, such as the repair or replacement of the refrigerator, the washing machine, the car, etc. As far as the amount of this unexpected expense is concerned, it shouldn't exceed 492€ (the monthly low income) and should be covæed solely from members' savings and not from loans made from relatives, friends or bank.

3.2.3. Variables not being collected but imputed

Imputed rent (HY030G)

We calculate the imputed rent using the self assesement method and the stratidication method.

With the first method, the respondent provides the figure and the interviewer checks the answer according to the rents prevailing in the specific area.

Also, for calculation of the imputed rent we developed the stratification method using the following variables:

• Dwelling type

(Detached house, Semi-detached or groups of similarly dwellings, Apartment or flat in a building with less than 10 dwellings, Apartment or flat in a building with 10 dwellings or more, Some other kind of accommodation, please specify)

• Number of rooms

Tenure status (Owned, Rented, sub-rented with rent at prevailing or market price (Included are cases where rent is recovered from housing benefit), Rented at a reduced price (lower price than the market price), Provided rent-free (from the employer, relatives, etc.))

• For owned dwelling

Year of purchase/inhabit main dwelling

Monthly Imputed rent for the dwelling (if the household renting a similar dwelling)

Approximate range for imputed rent (if the household does not know)

Mortgage loan (paid interest)

• For dwelling rented with rent lower than the market price

Year of sign the rent contract for the main dwelling

Rent per month for the main dwelling

Monthly Imputed rent for the dwelling (if it is provided this reduced price)

Approximate range for imputed rent (if the household does not know)

• For provided rent-free dwelling

Year of movement in the dwelling

Monthly Imputed rent for the dwelling (if the household renting a similar dwelling)

Approximate range for imputed rent (if the household does not know)

Other variables

Dwelling amenities, balcony, veranda, garage/ parking, elevator, swimming pool, garden

and also dwelling area.

It is noted that in the files we completed the variable with the results of statitification method.

Housing cost (HH070)

This term housing cost refers to monthly costs connected with the households right to live in the

accommodation. The costs of utilities (water, electricity, gas and heating) resulting from the

actual use of the accommodation are also included.

A linear model estimated the housing cost in the EU-SILC survey. In detail, the parameters of the

linear model were estimated using data from Household Budget Survey 2004/05. The

independent variables that were used were: Actual rent paid, utility bills, repairs and other

expenses, mandatory services and charges, mortgage interest payments.

The estimated linear model was applied to the data of EU-SILC producing estimates of the

housing cost, of similar households

Interest paid on mortgage (HY0100G)

For calculation of interest paid on mortgage we use the model of "Separation of the interest

component from total mortgage payment: illustrative model that proposed by Euorostat (see EU

SILC Doc. 105- How to separate interest from principal")

The variables used are:

Po the amount originally borrowed (principal)

T the term of the loan (number of years over which it is to be repaid)

t current duration of the mortgage (time since the loan was taken out)

Pt the amount of principal (loan) outstanding at time t

Y the mortgage payment (annualised), the total amount including principal and

interest

I the interest rate (annualised).

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Company car assessment (PY021)

The benefit for individuals of using a company car for private goals was not directly assessed at the interview but afterwards calculated by applying the depreciation method.

According to doc. EU-SILC 130/04 the main idea of the method was to impute to the employee the amount the recipient would have to pay over the reference period to enjoy the same benefit from the use of own vehicle.

More specifically:

- 1 Depreciation = (Purchase prices selling prices at X) / X.
- Where X is the average age of a company car.

To calculate the "purchase price" and the "selling price", the make, the model, the registration year and other characteristics of the car have been used. A list of prices or manufacturer's recommended retail prices have been used for a wide range of new cars. If a specific type of car was not included in the list, the RRP has been available from the manufacturer's website. If a RRP was not available in the country, then it was estimated based on the price of a similar car or the price relative to other cars in the country with the similar pricing structure. The list price included VAT and vehicle registration tax. For calculating the "average age of a company car" an average of 5 has been considered.

3.2.4. The source or procedure used for the collection of income variables

All income variables were collected by interview.

3.2.5. The form in which income variables at component level have been obtained

(e.g. gross, net of taxes on income at source and social contributions, net of tax on income at source, net of social contributions)

We collected gross income for approximately the 30% of income variables but we didn't calculate total household gross income, so this factor is zero in total disposable household income. From 2007, we collected only net income.

3.2.6. The method used for obtaining income target variables in the required form

Only net amounts are obtained and sent. However, frpm 2007, we designed a model on netgross and gross-net conversion of all income variables, also being the target aim of the survey.

3.3. Tracing rules

The Commission Regulation (EC) no. 1982/2003 of 21 October 2003, regarding the tracing rules, has been adopted and applied.

4. COHERENCE

Comparison with external sources is difficult because the definitions used do not match.

4.1. Change between SILC 2004/2005 and SILC 2005/2006 and 2006/2007 by main income component

In general, in mean disposable income of the years 2004/2005, 2005/2006 and 2006/2007 there has been an increase 9,53%, 1,92% and 5,56 respectively observed (table 29).

Table 29 Longitudinal change between 2004-2007 by main income component

Household income component	in euro			
	2004	2005	2006	2007
Total disposable household income (HY020N)	17800,42	19496,09	19871,28	20976,61
Net non cash or near cash employee income (PY010N)	4044,42	4156,14	4216,44	4267,21
Net cash profits or losses from self employment (PY050N)	1729,55	2211,13	2107,69	2283,33
Net old-age benefits (PY100N)	1530,27	1673,98	1806,24	2058,98

Table 29 - continued. Longitudinal change between 2004-2007 by main income component

Household income component- Change	%		
	2004/2005	2005/2006	2006/2007
Total disposable household income (HY020N)	9,53	1,92	5,56
Net non cash or near cash employee income (PY010N)	2,76	1,45	1,20
Net cash profits or losses from self employment (PY050N)	27,84	-4,68	8,33
Net old-age benefits (PY100N)	9,39	7,90	13,99

4.2. Comparison of income target variables and number of persons who receive income from each "income component", with external sources

Data from the comparison of yearly employee income between the data of EU SILC and Household Budget Survey and data for most recent change in the individual's activity status, main activity and status in employment compared with Labour Force Survey data (LFS) are presented.

Data from the comparison of yearly employee income between the data of EU SILC and Household Budget Survey are shown in the following table (table 30). It is noted that only persons who were present on the target polulation of the years 2004-2007 are shown in the table.

Table 30. Average employee income by age groups

Age groups	EU-SILC	HBS
16-24	5806,57	5,126.40
25-34	9576,60	8,708.43
35-44	13743,54	12,785.75
45-54	15548,11	14,153.74
55-64	15071,25	15,203.10

4.3. Other comparisons

Data for most recent change in the individual's activity status, main activity and status in employment compared with Labour Force Survey data (LFS) are appeared in following tables.

• Data for most recent change in the individual's activity status compared with Labour Force Survey data (LFS) are appeared in following tables.

Table 31. Most recent change in the individual's activity status %

Most recent change in the individual's activity status	EU SILC 2004 Longitudinal component	LFS 2004
Employed- unemployed	2,8	1,1
Employed- retired	0,3	0,7
Employed- other inactive	0,6	0,5
Unemployed-employed	2,4	1,4
Unemployed-retired	0,0	0,0
Unemployed-other inactive	0,1	0,5
Retired-employed	-	0,0
Retired-unemployed	-	0,0
Retired-other inactive	-	0,2
Other inactive - employed	0,7	0,9
Other inactive - unemployed	0,2	1,0
Other inactive - retired	-	0,1
Total	7,2	6,4
Total population without change	92,8	93,6
Total population	100,0	100,0

Table 32. Most recent change in the individual's activity status

Most recent change in the individual's activity status	EU SILC 2005 Longitudinal component	LFS 2005
Employed- unemployed	2,5	1,3
Employed- retired	0,3	0,8
Employed- other inactive	0,6	0,5
Unemployed-employed	2,0	1,4
Unemployed-retired	-	0,0
Unemployed-other inactive	0,2	0,4
Retired-employed	0,0	0,0
Retired-unemployed	-	0,0
Retired-other inactive	-	0,1
Other inactive - employed	0,9	1,0
Other inactive - unemployed	0,2	0,9
Other inactive - retired	0,0	0,1
Total	6,8	6,5
Total population without change	93,2	93,5
Total population	100,0	100,0

Table 33 . Most recent change in the individual's activity status %

Most recent change in the individual's activity status	EU SILC 2006 Longitudinal component	LFS 2006
Employed- unemployed	2,6	0,8
Employed- retired	0,5	0,5
Employed- other inactive	0,8	0,4
Unemployed-employed	2,1	1,3
Unemployed-retired	0,0	0,0
Unemployed-other inactive	0,2	0,5
Retired-employed	0,0	0,0
Retired-unemployed	-	0,0
Retired-other inactive	0,0	0,2
Other inactive - employed	0,8	0,9
Other inactive - unemployed	0,2	0,8
Other inactive - retired	0,1	0,3
Total	7,3	5,7
Total population without change	92,7	94,3
Total population	100,0	100,0

• Data for individual's activity status and employment status compared with Labour Force Survey data (LFS) are appeared in following tables.

Table 34. Most recent change in the individual's activity status %

Most recent change in the individual's activity status	EU SILC 2007 Longitudinal component	LFS 2007
Employed- unemployed	2,9	0,8
Employed- retired	0,5	0,5
Employed- other inactive	0,6	0,4
Unemployed-employed	2,1	1,1
Unemployed-retired	0,1	0,0
Unemployed-other inactive	0,1	0,5
Retired-employed	0,0	0,0
Retired-unemployed	-	0,0
Retired-other inactive	0,0	0,3
Other inactive - employed	0,5	0,8
Other inactive - unemployed	0,3	0,8
Other inactive - retired	0,1	0,2
Total	7,1	5,4
Total population without change	92,9	94,6
Total population	100,0	100,0

 Table 35. Individual's activity status

%

%		
Activity Status	EU SILC 2004 Longitudinal component	LFS 2004
Economically active	53,9	53.3
Economically non active	46,0	46,7
	EU SILC 2005 Longitudinal component	LFS 2005
Economically active	53,8	53,3
Economically non active	46,2	46,7
	EU SILC 2006 Longitudinal component	LFS 2006
Economically active	53,3	53,3
Economically non active	46,7	46,7
	EU SILC 2007 Longitudinal component	LFS 2007
Economically active	53,1	53,4
Economically non active	46,9	46,6

 Table 36. Individual's Status in employment

%

<u>%</u>		
Employment Status	EU SILC 2004 Longitudinal component	LFS 2004
Self-employed with employees	8,3	8,0
Self-employed without employees	20,2	22,2
Employee	64,4	63,4
Family worker	7,1	6,3
	EU SILC 2005 Longitudinal component	LFS 2005
Self-employed with employees	12,4	8,0
Self-employed without employees	18,2	22,1
Employee	64,0	63,6
Family worker	5,3	6,3
	EU SILC 2006 Longitudinal component	LFS 2006
Self-employed with employees	7,9	8,2
Self-employed without employees	23,7	21,6
Employee	62,6	63,6
Family worker	5,7	6,5
	EU SILC 2007 Longitudinal component	LFS 2007
Self-employed with employees	6,1	8,2
Self-employed without employees	26,4	21,3
Employee	61,8	64,1
Family worker	5,7	6,4

5. CONCLUSION

The National Statistical Service of Greece will keep on collecting qualitative data and producing the social structural indicators being absolutely necessary for policy making both at national and European level.

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