Final Quality Report

Survey on Income and Living Conditions Spain<br>(Spanish ECV 2010)

Madrid, December 2012

## CONTENTS

INTRODUCTION ..... 3

1. EUROPEAN UNION COMMON LONGITUDINAL INDICATORS .....  4
1.1. European Union common longitudinal indicators based on the longitudinal component of EU-SILC .....  4
1.2. Other indicators .....  .4
2. ACCURACY ..... 5
2.1. Sample design ..... 5
2.2. Sampling errors ..... 15
2.3. Non-sampling errors ..... 20
2.4. Mode of data collection ..... 57
2.5. Imputation procedure ..... 61
2.6. Imputed rent. ..... 67
2.7. Company cars ..... 69
3. COMPARABILITY ..... 70
3.1. Basic concepts and definitions ..... 70
3.2. Components of income ..... 78
3.3. Tracing rules ..... 81
4. COHERENCE ..... 82
4.1 Comparison of income target variables and number of persons who receive income from each 'income component', with external sources ..... 82

## INTRODUCTION

This Report complies with Article 16 of the Regulation of the European Parliament and of the Council of 16 June 2003 concerning Community statistics on income and living conditions (EU-SILC).

Article 16 requires that by the end of the year $\mathrm{N}+2$ Member States produce a final quality report on the longitudinal component of the statistical operation.

To implement Article 16, the Commission made a Regulation on the detailed content of the intermediate and final quality reports. The Commission also drew up a technical document to further specify and clarify the content of quality reports.

This Report provides information on accuracy, comparability and coherence with external sources.
The gross and net figures are provided for the 2010 Spanish microdata.

## 1. EUROPEAN UNION COMMON LONGITUDINAL INDICATORS

1.1. European Union common longitudinal indicators based on the longitudinal component of EU-SILC

The programs of the longitudinal indicators haven't been developed in INE.

### 1.2. Other indicators

Not applicable

## 2. ACCURACY

### 2.1. Sample design

The sample design has not changed since the beginning of the survey.

### 2.1.1. Type of sample design

The Survey on Income and Living Conditions (Spanish "ECV") is an annual survey with a rotationalgroup design. The sample comprises four independent sub-samples, each of which is a four-year panel. Each year, the sample is rotated in one of the panels.

Each sub-sample is selected following a two-stage design; the first-stage units are stratified. The first stage is made up of census sections. The second stage comprises main family addresses. There was no sub-sampling within those units; all households usually residing in those addresses were surveyed.

### 2.1.2. Sampling units

The first-stage units are census sections. Each section is made up of around 400 addresses.
The second-stage units are the principal family addresses selected for the sample in the census section.

### 2.1.3. Stratification and sub-stratification criteria

In each Autonomous Community [self-ruling region], first-stage units were stratified by the size of the municipality to which the census section belonged.
The following strata were considered:

Stratum 0: Municipalities of over 500,000 population.
Stratum 1: Provincial capitals (other than the above).
Stratum 2: Municipalities of over 100,000 population (other than the above).
Stratum 3: Municipalities of 50,000 to 100,000 population (other than the above).
Stratum 4: Municipalities of 20,000 to 50,000 population (other than the above).
Stratum 5: Municipalities of 10,000 to 20,000 population.
Stratum 6: Municipalities of under 10,000 population.

An independent sample was designed in each Autonomous Community to represent it, because one of INE's survey objectives is to provide data at this level of disaggegration.

### 2.1.4. Sample size and allocation criteria

To achieve the survey objective of producing acceptably reliable estimates at both the national and at the Autonomous Community (regional) level, we selected in 2004 a sample of 16,000 addresses spread over 2000 census sections.

We distributed the sample across Autonomous Communities by allocating one part uniformly and another part in proportion to Autonomous Community size. The uniform part accounted for about $40 \%$ of sections.

Table I. Sample distribution by Autonomous Community

| Autonomous Community | Number of census sections | Number of addresses |
| :---: | :---: | :---: |
| Andalusia | 240 | 1,920 |
| Aragon | 88 | 704 |
| Asturias (Principality of) | 84 | 672 |
| Balearic Islands | 72 | 576 |
| Canary Islands | 96 | 768 |
| Cantabria | 60 | 480 |
| Castile-León | 132 | 1,056 |
| Castile-La Mancha | 96 | 768 |
| Catalonia | 224 | 1,792 |
| Valencia | 156 | 1,248 |
| Extremadura | 76 | 608 |
| Galicia | 132 | 1,056 |
| Madrid (Community of) | 192 | 1,536 |
| Murcia (Region of) | 76 | 608 |
| Navarre (Autonomous Community) | 60 | 480 |
| Basque Country | 120 | 960 |
| La Rioja | 60 | 480 |
| Ceuta and Melilla (Autonomous | 36 | 288 |
| Cities) |  |  |
| Total | 2,000 | 16,000 |

In each section, besides the eight addresses selected originally, a further eight were selected as substitutes in case any problem arose with the addresses chosen originally.

The number of sections in each Autonomous Community and stratum group was always a multiple of four, to ensure that all rotations had the same notional-sample distribution across Autonomous Communities and strata. Therefore the number of units considered in the new sub-sample in the current survey is $1 / 4$ of the figures included in the table above.

In order to achieve the minimum effective sample size included in the Regulation, the initial sample in the new-subsample is 4.000 dwellings. The response rate (including frame invalid addresses - nonresidential, unoccupied, etc. -) is about $60 \%$. As substitutions are admitted the final sample in the new-sub-sample is about 4.000 households.

For the other 3 sub-samples (panel component), the sample will consist of the households from the previous wave: $4.000+3.600+3.100=10.700$ households. Since the estimated response rate is about $85 \%$, the final sample in these three groups will be close to 9.100 households.

The design effect in relation to the 'risk of poverty rate' variable is about 1,4 (using wave 1 data). Therefore the final effective sample size is approximately $(4.000+9.100) / 1,4=9.350$ households. Comparing this figure with the minimum effective sample size included in the Regulation, 6.500, we see that the minimum sample size is achieved by far in Spain.

### 2.1.5. Sample selection schemes

Census sections were selected in each stratum by a probability in proportion to size (family dwellings). In each section, addresses were selected with equal probability by systematic sampling initiated at random. This procedure produces self-weighted samples in each stratum.

### 2.1.6. Sample distribution over time

There is no itemised distribution for sample collection in the period February-July 2010. The income reference period is fixed (year 2009).

Sample distribution (collected household questionnaire) over the time

|  |  | Number | Percentage |
| :--- | :--- | ---: | ---: |
|  |  |  |  |
| February | 21 to 31 | 33 | 0.2 |
| March | 1 to 10 | 825 | 6.1 |
|  | 11 to 20 | 989 | 7.3 |
|  | 21 to 31 | 1297 | 9.5 |
| April | 1 to 10 | 930 | 6.8 |
|  | 11 to 20 | 1608 | 11.8 |
|  | 21 to 31 | 1515 | 11.1 |
| May | 1 to 10 | 1372 | 10.1 |
|  | 11 to 20 | 1704 | 12.5 |
|  | 21 to 31 | 1121 | 8.2 |
| June | 1 to 10 | 1295 | 9.5 |
|  | 11 to 20 | 633 | 4.7 |
|  | 21 to 31 | 235 | 1.7 |
| July | 1 to 10 | 39 | 0.3 |
|  | 11 to 20 | 1 | 0.0 |

### 2.1.7. Renewal of sample: Rotational groups

As indicated earlier, the sample design takes the form of four annual panels: individuals in each panel remain in the sample for four consecutive years. Therefore we divided, in wave 1, the 2000 sections into four groups - called rotational groups - corresponding to the four panels of the sample. Each subsample had 500 sections

Every year, we replace all the sample of addresses in the sections belonging to a given rotational group (the sections don't change, new addresses are selected). Hence the year's sample has a three-quarters overlap with the previous year's sample.

The number of sections in each Autonomous Community and stratum group was always a multiple of four, to ensure that all rotations had the same notional sample distribution across Autonomous Communities and strata.

The numbers used in the variable DB075 (rotational group) is 1,2,3 and 4. In the 2010 survey, the rotational group of the new sub-sample is " 2 ".

### 2.1.8. Weightings

The complete weighting procedure is described.

### 2.1.8.1. Weightings in a NEW rotational group

In the first year for the rotational group $t$, only cross-sectional factors and estimates need be considered. , for $t=1,2, \ldots$.

## Step 1. Design factor

$\hat{Y}^{(1, t)}=\sum_{h} \sum_{j, i \in h} \frac{V_{h}^{(t-1)}}{v t_{h}^{t}} y_{h j i}^{t}=\sum_{h} \sum_{j, i \in h} \frac{V_{h}^{(t-1)}}{8 \cdot n_{h}^{t}} y_{h j i}^{t}$
Where:
$t$ is the rotational group;
h is the stratum to which section j belongs;
$j$ is the section;
i is a household.
$V_{h}^{(t-1)}$ is the total addresses in the municipal register file for $t-1$ in stratum $h$.
$\mathrm{n}_{\mathrm{h}}^{\mathrm{h}}$ is the allocation of sections in stratum h and rotational group t .
$\mathrm{vt}_{\mathrm{h}}^{\mathrm{t}}$ is the initial number of addresses in stratum h in rotational group t , which, by design, is $8 \cdot \mathrm{n}_{\mathrm{h}}^{\mathrm{t}}$.
$y_{\mathrm{hji}}^{\mathrm{t}}$ is the value of the study variable in household i , section j , stratum h , rotational group t .
Therefore, for a household i , section j , stratum h , turn t , the design factor is:
$w_{h j i}^{t}=\frac{V_{h}^{(t-1)}}{8 \cdot n_{h}^{t}}$
Given that $n_{h}^{1}=n_{h}^{2}=n_{h}^{3}=n_{h}^{4}$, as indicated regarding rotational groups, the design factor does not depend on the rotational group.

## Step 2. Non-response adjustments

We adjust for non-response by multiplying the above factor by $\frac{\mathrm{vt}_{\mathrm{h}}^{\mathrm{t}}}{\mathrm{ve}}{ }_{\mathrm{h}}^{\mathrm{t}}$. This provides an estimate of the inverse probability of response in the stratum, where $\mathrm{ve}_{\mathrm{h}}^{\mathrm{t}}$ is the actual number of addresses in stratum h and rotational group t. We thus have:
$\hat{Y}^{(2, t)}=\sum_{h} \hat{Y}_{h}^{(2, t)}=\sum_{h} \sum_{j, i \in h} \frac{V_{h}^{(t-1)}}{v e_{h}^{t}} y_{h j i}^{t}$

## Step 3. Adjustments to external data (ratio estimator)

Using projected population as at the time of the survey as an auxiliary variable, we obtained a separate ratio estimator the chief purpose of which was to enhance the estimate produced by the previous steps
by bringing the population figure at the time of sample selection up to date to the time of survey performance. The population figure used refers to 15 February of the current year.

The expression of the estimator is:
$\hat{Y}^{(3, t)}=\sum_{h} \frac{\hat{Y}_{h}^{(2, t)}}{\hat{P}_{h}^{(2, t)}} P_{h}$
i.e.,
$\hat{Y}^{(3, t)}=\sum_{h} \frac{\sum_{j, i \in h} \frac{V_{h}^{(t-1)}}{v e_{h}^{t}} y_{h j i}^{t}}{\sum_{j, i \in h} \frac{V_{h}^{(t-1)}}{v e_{h}^{t}} p_{h j i}^{t}} \cdot P_{h}=\sum_{h} \sum_{j, i \in h} \frac{P_{h}}{\sum_{j, i \in h} p_{h j i}^{t}} y_{h j i}^{t}$
Which can be written down as:
$\hat{Y}^{(3, \mathrm{t})}=\sum_{\mathrm{k}} \mathrm{w}_{\mathrm{k}}^{\mathrm{t}} \cdot \mathrm{y}_{\mathrm{k}}^{\mathrm{t}}$
Where the subscript k represents sample households, and:
$\mathbf{w}_{\mathrm{k}}^{\mathrm{t}}=\frac{\mathrm{P}_{\mathrm{h}}}{\sum_{\mathrm{ji}} \mathrm{p}_{\mathrm{hji}}^{\mathrm{t}}}=\frac{\mathrm{P}_{\mathrm{h}}}{\mathrm{p}_{\mathrm{h}}^{\mathrm{t}}}$ if household k is in stratum h.
$\mathrm{p}_{\mathrm{h}}^{\mathrm{t}}$ is the sample population of stratum h , turn t .
$P_{h}$ is the projected population of stratum $h$.
$y_{k}^{t}$ is the value of the study variable in household $k$, rotational group $t$.

## Step 4. Adjustments to external data (calibration)

The above factor is weighted to adjust estimated distribution to the population distribution by Autonomous Community, age group and gender provided by the Demographic Projections Unit.

We have also adjusted the estimated distribution of households by size to our estimate in the first quarter of the current year for the Labour Force Survey (Encuesta de Población Activa - EPA).

For the calibration we used the CALMAR macro designed by the French Institut National de Statistique et Études Economiques (INSEE). We opted for the truncated Logit method with values LO=0.1, UP=10. We considered the following twenty-two groups: Males and females aged 0-15, 16-19, 20-24, 25-34, 35-44, 45-49, 50-54, 55-59, 60-64, 65-74, 75 years and over.
Household distribution by size was: households of $1,2,3$ or 4 or more members.
In Ceuta and Melilla adjustment groups were fewer because of the small sample size. Specifically, household distribution was not adjusted, and we only considered the following age and gender groups: males and females aged 0-15, 16-24, 25-49, 50-64, 65-74, 75 years and over.

The obtained factor, $\mathrm{WH}_{\mathrm{k}}^{\mathrm{t}}$, is the household factor. We allocated to all household members their respective household factor $W P_{i}^{t}=W H_{k}^{t}$, if $\mathbf{i} \in \mathrm{k}$.

### 2.1.8.2. Weightings in a PANEL rotational group

As in the previous step, where weigths in a new rotational group were calculated, the construction of the weights in a panel rotational group is done in several steps.

## Step 1. Calculation of the basic panel weight

This weight is calculated in each rotational group independently. It collects the inclusion probabilities and non-response or attrition of the panel sample.

For households in the component panel (rotating groups already investigated in previous waves) the basic panel weight is only calculated for the panel persons of the household.

It is calculated from the final cross-sectional weight obtained for the household in wave $t-1$ ( $W P_{i}=W H_{k}$, si $i \in k$ ), adjusting due to the attrition of the sample. The adjustment is the inverse of the response probability inside the rotational group, region, age group and gender.
Non-panel persons have a basic panel weight equal to zero.

## Step 2. Calculation of the household weight in each rotational group

The household weight of household $h$ is:
$w_{h}^{t}=\frac{\sum_{j \in h} d_{j}}{n_{h}}$
where:
$d_{j}$ : is the basic panel weight of the panel person $j$ of the household $h$.
$\mathrm{n}_{\mathrm{h}}$ : is the number of persons (panel and non-panel) aged 14 or more in wave 1 , of the household h .
The sum is only for the panel persons of the household.

### 2.1.8.3. Common weightings in NEW and PANEL rotational groups

After having applied the corresponding weightings in the new and panel sub-samples, some other steps need be considered.

## Common step 1. Final cross-sectional weights

The four rotational groups are grouped together. Finally, the factors of the four groups are grouped together by weighting them by the actual number of sample households in each group, by Autonomous Community.

Thus:
$\mathrm{WH}_{\mathrm{k}}=\frac{\mathrm{n}_{\mathrm{ca}}^{\mathrm{t}}}{\mathrm{n}_{\mathrm{ca}}} \mathrm{WH}_{\mathrm{k}}^{\mathrm{t}}$
This is the household factor and also the factor for each household member.
Where $\mathrm{n}_{\mathrm{ca}}^{\mathrm{t}}$ represents the number of sample households in the Autonomous Community ca and rotational group t , and $\mathrm{n}_{\text {ca }}$ represents the household sample size in the Autonomous Community ca $\left(\mathrm{n}_{\mathrm{ca}}=\sum_{\mathrm{t}=1}^{4} \mathrm{n}_{\mathrm{ca}}^{\mathrm{t}}\right)$.
From 2005 onwards $\frac{n_{c a}^{t}}{n_{c a}}$ will be $1 / 4$ and calibration will be carried out at this stage.

## Common step 2. Factor for persons aged 16 and over

The factor is calculated on the basis of the factor for all household persons, in two steps:

1. Correction of non-response in Individual Questionnaires. Using the factor $W P_{i}^{t}$, we construct the factor for persons aged 16 and over completing the Individual Questionnaire, correcting nonresponse in Individual Questionnaires:
$W C I_{i}^{t}=\frac{\sum_{j \in G_{i}} W P_{j}^{t}}{\sum_{j \in G_{i}} W P_{j}^{t} \cdot R_{j}} \cdot W P_{i}^{t}$
Where:

- Variable $R$ takes the value 1 for individual $j$ if he/she has completed the questionnaire, and 0 if not.
- $G_{j}$ is the set of individuals in the same Autonomous Community and age and gender group as questionnaire i . The age and gender groups considered are the 22 groups mentioned for the general case outlined in step $4^{1}$.

2. Grouping of the four rotational groups. Finally, the factors of the four rotational groups are grouped together by weighting them by the number of Individual Questionnaires in each group, by Autonomous Community.

The factor for persons aged 16 or over completing the Individual Questionnaire is:
$\mathrm{WCI}_{\mathrm{i}}=\frac{\mathrm{ci}_{\mathrm{ca}}^{\mathrm{t}}}{\mathrm{ci}_{\mathrm{ca}}} \mathrm{WCI}_{\mathrm{i}}^{\mathrm{t}}$ for $\mathrm{t}=2004$ and $W C I_{i}=\frac{\sum_{j \in G_{i i}} W P_{j}}{\sum_{j \in G_{i i}} W P_{j} \cdot R_{j}} \cdot W P_{i}$ for $\mathrm{t}>2004$

[^0]Where $\mathrm{ci}_{\mathrm{ca}}^{\mathrm{t}}$ represents the number of sample Individual Questionnaires in the Autonomous Community ca and rotational group t , and $\mathrm{ci}_{\mathrm{ca}}$ represents the actual number of sample Individual Questionnaires in the Autonomous Community ca $\left(\left(\mathrm{ci}_{\mathrm{ca}}=\sum_{\mathrm{t}=1}^{4} \mathrm{ci}_{\mathrm{ca}}^{\mathrm{t}}\right)\right.$ ).

### 2.1.8.4. Final longitudinal weights

The longitudinal analysis is done only for persons and for a concrete period of time.
Taking into account the sample design main characteristics, this analysis covers up to 4 years, since this is the maximum number of periods the households stay in the sample.

The elevation calculation process is similar to the one applied in the cross-sectional.

### 2.1.9. Substitutions

### 2.1.9.1. Method of selection of substitutions

As in previous years, in the new sub-sample, in each section, besides the eight addresses selected originally, a further eight were selected in the section as substitutes in case any problem arose with the addresses chosen originally.

Hence the common variable of an address selected originally and its prospective substitute is the census section. There is not other common variable.

There have been multiple substitutions in the sense that further substitutions (until the list of eight substitutes is completely used) have been made for failed substitutions.

The total number of households in D-file in the new sub-sample is 6403 (4003 are original households and 2400 are substituted households). This number includes the substituted households not accepted for database (failed substituted units).

Number of original dwellings and original households in the new sub-sample

```
Original
    units
    Number
```

| Dwellings | 4000 |
| :--- | ---: |
| Households in same dwelllings | 3 |
| Total households | 4003 |

Number of original households in the new sub-sample
units
Number

| Households accepted for database | 2576 |
| :--- | :--- |
| Households failed | 1427 |
| Total households | 4003 |

```
Number of original households in the new sub-sample not accepted in database by colaboration
```

of the susbstituted unit
Failed original households successfully subsistuted
Failed original households not successfully subsistuted
Total failed original households
Number of substituted households in the new sub-sample

Substituted dwelling accepted in DB

There are "Other substituted household accepted in database" because some hosueholds initially rejected (and carried out the process of substitutions) were finally recovered.

In the tables related to substitutions the original household is linked only to the final substituted household (there can be some intermediate substituted failed households in between).
2.1.9.2. Main characteristics of substituted units compared to original units, by region (NUTS 2), if available

In this point the information is very limited. There are some variables that have been collected using a short questionnaire in field when an original unit has not been accepted, but the non-response rate has been very high.
2.1.9.3. Distribution of substituted units by record of contact at address (DB120), household questionnaire result (DB130) and household interview acceptance (DB135) of the original units

In this table the original household is linked only to the final substituted household (there can be some intermediate substituted failed households in between).

Distribution of substituted units by record of contact at address, household questionnaire result and household interview acceptance of the original units

| Original | Original <br> units | Substituted <br> units | Substituted <br> units |
| :---: | :---: | :---: | :---: |
| Number | Percentage | Number | Percentage |


| DB120 $=21$ | 47 | 3.3 | 42 | 3.2 |
| :--- | ---: | ---: | ---: | ---: |
| DB120 $=22$ | 11 | 0.8 | 10 | 0.8 |
| DB120 $=23$ | 453 | 31.7 | 404 | 31.0 |
| DB130 $=21$ | 509 | 35.7 | 467 | 35.8 |
| DB130 $=22$ | 376 | 26.3 | 353 | 27.0 |
| DB130 $=23$ | 17 | 1.2 | 16 | 1.2 |
| DB130 $=24$ | 14 | 1.0 | 13 | 1.0 |
| Total | 1427 | 100.0 | 1305 | 100.0 |

### 2.2. Sampling errors

For 2010 the data are:
Number of observations

|  | Number of observations before imputation (partial or total information) | Number of observations after imputation |
| :---: | :---: | :---: |
| Total disposable household income | 13266 | 13597 |
| T. d. h. income before s. tr. other than old_age and surv. ben. | 13183 | 13597 |
| T. d. h. income before s. tr. including old_age and surv. ben. | 12893 | 13597 |
| Net income from rental of a property or land | 908 | 937 |
| Family/children-related allowances | 609 | 617 |
| Social exclusion not elsewhere classified | 375 | 376 |
| Housing allowances | 201 | 212 |
| Regular inter-household cash transfer received | 452 | 468 |
| Net interest, div., profit from capital invest. in uninc. business | 2873 | 3851 |
| Net income received by people aged under 16 | 417 | 421 |
| Regular taxes on wealth | 0 | 0 |
| Regular inter-household cash transfer paid | 856 | 883 |
| Repayments/receipts for tax adjustments | 9439 | 10005 |
|  | Number of observations before imputation (partial or total information) | Number of observations after imputation |
| Net cash or near cash employee income | 12747 | 13828 |
| Net non-cash employee income | 1505 | 1785 |
| Net cash profits or losses from self-employment | 1728 | 2121 |
| Net pension from individual private plans | 200 | 227 |
| Net unemployment benefits | 2810 | 2874 |
| Net old-age benefits | 6185 | 6370 |
| Net survivors benefits | 484 | 492 |
| Net sickness benefits | 330 | 342 |
| Net disability benefits | 739 | 760 |
| Education-related allowances | 700 | 721 |

Number of observations (before and after imputation) by household size (equivalised disposable income)
\(\left.$$
\begin{array}{llr} & \begin{array}{c}\text { Number of } \\
\text { observations } \\
\text { before }\end{array} & \\
\text { imputation } \\
\text { (partial or } \\
\text { total }\end{array}
$$ \quad \begin{array}{c}Number of <br>
observations <br>

after\end{array}\right]\)| information) | imputation |  |
| :---: | :---: | ---: |
| Total | 36059 | 36922 |
| 1 member | 2497 | 2577 |
| 2 members | 7948 | 8138 |
| 3 members | 9004 | 9184 |
| 4 and more members | 16610 | 17023 |

Number of observations (before and after imputation) by age (equivalised disposable income)
$\left.\begin{array}{ccr} & \begin{array}{c}\text { Number of } \\ \text { observations } \\ \text { before } \\ \text { imputation } \\ \text { (partial or } \\ \text { total }\end{array} & \begin{array}{c}\text { Number of } \\ \text { observations } \\ \text { after }\end{array} \\ \text { information) } \\ \text { imputation }\end{array}\right]$

Number of observations (before and after imputation) by sex (equivalised disposable income)

|  | Number of observations before imputation (partial or total information) | Number of observations after imputation |
| :---: | :---: | :---: |
| Total | 36059 | 36922 |
| Males | 17542 | 17961 |
| Females | 18517 | 18961 |

Mean of household income components

Mean

| Total disposable household income |  |
| :--- | ---: |
| T. d. h. income before s. tr. other than old_age and surv. ben. | 25937 |
| T. d. h. income before s. tr. including old_age and surv. ben. | 23952 |
| Net income from rental of a property or land | 19021 |
| Family/children-related allowances | 6641 |
| Social exclusion not elsewhere classified | 2746 |
| Housing allowances | 4022 |
| Regular inter-household cash transfer received | 1722 |
| Net interest, div., profit from capital invest. in uninc. business | 5774 |
| Net income received by people aged under 16 | 950 |
| Regular taxes on wealth | 990 |
| Regular inter-household cash transfer paid |  |
| Repayments/receipts for tax adjustments |  |

Mean of personal income components

Mean

| Net cash or near cash employee income | 15353 |
| :--- | ---: |
| Net non-cash employee income | 1624 |
| Net cash profits or losses from self-employment | 8387 |
| Net pension from individual private plans | 6033 |
| Net unemployment benefits | 4631 |
| Net old-age benefits | 11541 |
| Net survivors benefits | 6870 |
| Net sickness benefits | 4900 |
| Net disability benefits | 8894 |
| Education-related allowances | 1310 |
| Gross monthly earnings for employees | 1779 |

Mean of the equivalised disposable income by household size

Mean

| Total | 14687 |
| :--- | :--- |
| 1 member | 13211 |
| 2 members | 15548 |
| 3 members | 15800 |
| 4 and more members | 13836 |

Mean of the equivalised disposable income by age

Mean
Total 14687
0 le age le 2413661
25 le age le $34 \quad 16201$
35 le age le $44 \quad 15219$
45 le age le $54 \quad 15295$
55 le age le 6416053
65 le age 12838
Mean of the equivalised disposable income by sex

Mean

| Total | 14687 |
| :--- | :--- |
| Males | 14847 |
| Females | 14532 |

Total disposable household income ..... 2,09
T. d. h. income before s. tr. other than old_age and surv. ben. ..... 2,10
T. d. h. income before s. tr. including old_age and surv. ben. ..... 2,18
Net income from rental of a property or land ..... 3,46
Family/children-related allowances ..... 1,25
Social exclusion not elsewhere classified ..... 3,11
Housing allowances ..... 1,59
Regular inter-household cash transfer received ..... 20,34
Net interest, div., profit from capital invest. in uninc. business ..... 0,69
Net income received by people aged under 16 ..... 0,88
Regular taxes on wealth ..... 0,00
Regular inter-household cash transfer paid ..... 1,26
Repayments/receipts for tax adjustments ..... 0,17
Mean of personal income components
Mean
Net cash or near cash employee income ..... 1,16
Net non-cash employee income ..... 0,67
Net cash profits or losses from self-employment ..... 5,06
Net pension from individual private plans ..... 6,66
Net unemployment benefits ..... 0,82
Net old-age benefits ..... 1,01
Net survivors benefits ..... 2,43
Net sickness benefits ..... 2,56
Net disability benefits ..... 2,85
Education-related allowances ..... 0,94
Gross monthly earnings for employees ..... 0,13
Mean of the equivalised disposable income by household size
Mean
Total ..... 1,14
1 member ..... 2,43
2 members ..... 1,98
3 members ..... 2,79
4 and more members ..... 1,65
Mean
Total ..... 1,14
0 le age le 24 ..... 1,61
25 le age le 34 ..... 2,43
35 le age le 44 ..... 2,15
45 le age le 54 ..... 1,98
55 le age le 64 ..... 2,57
65 le age ..... 1,41Mean of the equivalised disposable income by sex
Mean
Total ..... 1,14
Males ..... 1,19
Females ..... 1,24

### 2.3. Non-sampling errors

### 2.3.1. Sampling frame and coverage errors

The sampling frame is the Municipal Register.
The sample selection frame was area-based and consisted of the list of census sections used in the Municipal Register (population register).

The new sample for SILC-2010 was obtained with the Register dated 04.03.2009.
The Municipal Register [Padrón] is an administrative record of the residents in a municipality. The Municipal Register is formed, maintained, reviewed and kept by each municipality. It is continually updated.

All persons residing in Spain must appear in the Municipal Register of the municipality where they usually live. A person living in more than one municipality must register only in the one where he/she lives longest in the year.

Municipal Register entries contain only the following mandatory details on each resident:
a) Name
b) $\operatorname{Sex}$
c) Usual address
d) Nationality
e) Place and date of birth
f) Identity Card Number or, if foreign, an equivalent identifying document

The percentage of addresses does not exist or is non-residential address or is unoccupied is:

Percentage of address does not exist or is non-residential or is unoccupied or not principal residence (DB120 $=23$ ) over the total original address (household) selected

## Percentage

11.3

### 2.3.2.1. Measurement errors

We constructed the questionnaire so as to elicit sufficient information to determine the target variables set forth in the Commission Regulation. We did not include additional questions to cover other areas at the national level.

We applied the experience of previous operations to improve the questionnaire. Apart from the previous waves questionnaires, the experience of the European Community Household Panel and, more particularly, the experience of the Pilot Survey on Living Conditions (2002) has helped to the configuration of the current questionnaire.

The questionnaire design was worked on by experts of the originating unit and of the IT and Fieldwork departments. It was then reviewed by experts working on other surveys. The questionnaire was later tested by various people.

We have updated the questionnaire on an ongoing basis in response to the final reports of the 38 Area Heads in charge of fieldwork, and to follow Eurostat recommendations on some specific variables.

Training followed a cascade pattern. We first ran a course in Madrid for the 38 Area Heads, divided into 2 groups. At their Provincial Offices Area Heads then taught a one-week course to their staff using a range of training manuals.

A section was assigned to each interviewer and fieldwork began. Inspectors revisited some households on the basis of any difficulties found.

### 2.3.2.2. Processing errors

Questionnaires are completed by CAPI (Compute Aided Personal Interviewing). This procedure has been implemented since 2005 (in 2004 questionnaires were completed by PAPI).

As in previous years, after data collection, we then apply a range of checks developed at INE to ensure data consistency. The phases of these checks are:

1) Households coverage
2) Persons coverage
3) Inconsistencies among tables
4) Control of duplicates
5) Household identification check
6) Person identification check
7) Monitoring of flows, valid values and out-of-range values
8) Intra-year inconsistencies check
8.1 Intra-questionnaire inconsistencies check
8.2 Inter-questionnaire inconsistencies check
9) Follow-up of households and persons

We convert the data to the format required by Eurostat and apply the set of checks developed by Eurostat.

Due to the mode of collection (CAPI), some of the traditional sources of errors have disappeared or have been reduced.

The main source of error was flow path. Errors in direct questions on income were few.

### 2.3.3. Non-response errors

### 2.3.3.1. Achieved sample size

Longitudinal component. Achieved sample size

SILC 2007. Number of households for which an interview is accepted for the database (DB135 $=$ 1). Rotational group breakdown

## Number

| Group 3 | 3833 |
| :--- | :--- |
| Total | 3833 |

SILC 2007. Number of persons 16 years or older who are members of the households for which the interview is accepted for the database (DB135 $=1$ ), and who completed a personal interview (RB250 = 11 to 13).

Number

| Group 3 | 8822 |
| :--- | :--- |
| Total | 8822 |

SILC 2008. Number of households for which an interview is accepted for the database (DB135 = 1). Rotational group breakdown

Number

| Group 3 | 3415 |
| :--- | :--- |
| Group 4 | 3875 |
| Total | 7290 |

SILC 2008. Number of persons 16 years or older who are members of the households for which the interview is accepted for the database (DB135 $=1$ ), and who completed a personal interview $($ RB250 $=11$ to 13$)$.

Number

| Group 3 | 7860 |
| :--- | ---: |
| Group 4 | 8882 |
| Total | 16742 |

SILC 2009. Number of households for which an interview is accepted for the database (DB135 $=$ 1). Rotational group breakdown

## Number

| Group 1 | 3927 |
| :--- | ---: |
| Group 3 | 3195 |
| Group 4 | 3440 |
| Total | 10562 |

SILC 2009. Number of persons 16 years or older who are members of the households for which the interview is accepted for the database (DB135 $=1$ ), and who completed a personal interview (RB250 = 11 to 13).

Number
Group 1
8838

| Group 3 | 7260 |
| :--- | ---: |
| Group 4 | 7966 |
| Total | 24064 |

SILC 2010. Number of households for which an interview is accepted for the database (DB135 = 1). Rotational group breakdown

## Number

| Group 1 | 3482 |
| :--- | :--- |
| Group 3 | 3022 |
| Group 4 | 3195 |
| Total | 9699 |

SILC 2010. Number of persons 16 years or older who are members of the households for which the interview is accepted for the database (DB135 = 1), and who completed a personal interview (RB250 = 11 to 13).

## Number

| Group 1 | 7830 |
| :--- | ---: |
| Group 3 | 6899 |
| Group 4 | 7328 |
| Total | 22057 |

### 2.3.3.2. Unit non-response

Unit non-response. Rotational group

|  | Group 1 <br> $(2009)$ | Group 3 <br> $(2007)$ | Group <br> $(2008)$ |
| :--- | ---: | ---: | ---: |
| Ra | 0.99 | 0.98 | 0.98 |
| Rh | 0.70 | 0.63 | 0.65 |
| NRh | 30.48 | 37.96 | 36.41 |
| Rp | 0.99 | 0.99 | 0.99 |
| NRp | 1.30 | 0.70 | 0.57 |
| NRp2 | 31.38 | 38.39 | 36.78 |

Ra-Proportion of address contact
Rh-Proportion of complete household interv. accepted for the database
NRh-Household non-response rate
Rp-Proportion of complete personal interv. within the households accepted for the database
NRp-Individual non-response rate
NRp2-Overall individual non-response rate

## HOUSEHOLDS

Longitudinal component. Unit non-response. Waves 1-2. Households.

Household response rates: Comparison of results codes between wave 2 and wave 1 (SILC 2007-2008). Rotational group and total Group 3

|  | $\begin{gathered} \text { DB130=11 } \\ \text { and } \text { DB135=1 } \end{gathered}$ | $\begin{aligned} & \text { DB130 }=11 \\ & \text { and } \text { DB135=2 } \end{aligned}$ | DB130=22 | DB130=23 | DB130=24 | DB130=21 | DB120=21 | $\begin{gathered} \text { DB110 }=3,4,- \\ 5,6,7 \end{gathered}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DB130=11 and DB135=1 | 3338 | 3 | 110 | 12 | 16 | 299 |  | 55 | 3833 |
| DB110=8 (wave 2) | 77 | 1 | 12 | 2 | . | 7 | 14 |  | 113 |
| Total | 3415 | 4 | 122 | 14 | 16 | 306 | 14 | 55 | 3946 |

Total

|  | DB130=11 | DB130=11 |  |  |  |  |  | DB110=3,4, - |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | and DB135=1 | and DB135=2 | DB130=22 | DB130 $=23$ | DB130 $=24$ | DB130=21 | DB120=21 | 5,6,7 | Total |
| DB130=11 and DB135=1 | 3338 | 3 | 110 | 12 | 16 | 299 |  | 55 | 3833 |
| DB110=8 (wave 2) | 77 | 1 | 12 | 2 | . | 7 | 14 |  | 113 |
| Total | 3415 | 4 | 122 | 14 | 16 | 306 | 14 | 55 | 3946 |

Wave response rates. Rotational group and total (SILC 2007-2008). Percentages.

|  | Wave <br> response <br> rate | Refusal <br> rate | No- <br> contacted <br> and others |
| :--- | :---: | :---: | ---: |
| Group 3 | 86.54 | 7.75 | 5.70 |
| Total | 86.54 | 7.75 | 5.70 |

Longitudinal follow-up rates. Rotational group and total (SILC 2007-2008). Percentages.

$$
\begin{aligned}
& \text { Longitudinal } \\
& \text { follow-up } \\
& \text { rate }
\end{aligned}
$$

$\begin{array}{ll}\text { Group } 3 & 90.76 \\ \text { Total } & 90.76\end{array}$
Follow-up ratio. Rotational group and total (SILC 2007-2008)

## Follow-up <br> ratio

Group 3
0.93

Total
0.93

Achieved sample size ratio. Rotational group and total (SILC 2007-2008)

> Achieved
> sample size
> ratio
$\begin{array}{ll}\text { Group } 3 & 0.89 \\ \text { Total } & 0.89\end{array}$
Household response rates: Comparison of results codes between wave 2 and wave 1 (SILC 2008- 2009). Rotational group and total
Group 4

|  | $\begin{aligned} & \text { DB130=11 } \\ & \text { and DB135= } \end{aligned}$ | $\begin{aligned} & \text { DB130 }=11 \\ & \text { and } \text { DB135=2 } \end{aligned}$ | DB130=22 | DB130=23 | DB130=24 | DB130=21 | DB120=21 | $\begin{gathered} \text { DB110 }=3,4,- \\ 5,6,7 \end{gathered}$ | DB110=10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DB130=11 and DB135=1 | 3381 | 2 | 80 | 14 | 7 | 310 |  | 80 | 1 | 3875 |
| DB110=8 (wave 2) | 59 | . | 8 |  | 2 | 7 | 10 |  |  | 86 |
| Total | 3440 | 2 | 88 | 14 | 9 | 317 | 10 | 80 | 1 | 3961 |

Total


Wave response rates. Rotational group and total (SILC 2008- 2009). Percentages.

| Wave <br> response <br> rate | Refusal <br> rate | No- <br> contacted <br> and others |
| :--- | ---: | ---: |
| 86.85 | 8.00 | 5.15 |
| 86.85 | 8.00 | 5.15 |

Longitudinal follow-up rates. Rotational group and total (SILC 2008-2009). Percentages.

## Longitudinal

follow-up
rate
Group 4
89.91
Total
89.91

Follow-up ratio. Rotational group and total (SILC 2008- 2009)

## Follow-up <br> ratio

Group 4
0.92
Total
0.92

Achieved sample size ratio. Rotational group and total (SILC 2008-2009)

> Achieved
> sample size
ratio
Group 4
0.89

Total
0.89

Household response rates: Comparison of results codes between wave 2 and wave 1 (SILC 2009-2010). Rotational group and total Group 1

|  | $\begin{aligned} & \text { DB130 }=11 \\ & \text { and DB135=1 } \end{aligned}$ | DB130=22 | DB130=23 | DB130=24 | DB130=21 | DB120=21 | $\begin{gathered} \text { DB110 }=3,4,- \\ 5,6,7 \end{gathered}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DB130=11 and DB135=1 | 3396 | 107 | 14 | 8 | 324 |  | 78 | 3927 |
| DB110=8 (wave 2) | 86 | 4 | 1 | . | 10 | 10 |  | 111 |

Total

|  | $\begin{aligned} & \text { DB130 }=11 \\ & \text { and DB135=1 } \end{aligned}$ | DB130=22 | DB130=23 | DB130=24 | DB130=21 | DB120=21 | $\begin{gathered} \text { DB110 }=3,4,- \\ 5,6,7 \end{gathered}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DB130=11 and DB135=1 | 3396 | 107 | 14 | 8 | 324 | . | 78 | 3927 |
| DB110=8 (wave 2) | 86 | 4 | 1 |  | 10 | 10 |  | 111 |
| Total | 3482 | 111 | 15 | 8 | 334 | 10 | 78 | 4038 |

Wave response rates. Rotational group and total (SILC 2009-2010). Percentages.

|  | Wave <br> response <br> rate | Refusal <br> rate | No- <br> contacted <br> and others |
| :--- | :---: | :---: | :---: |
| Group 1 | 86.23 | 8.27 | 5.50 |
| Total | 86.23 | 8.27 | 5.50 |

Longitudinal follow-up rates. Rotational group and total (SILC 2009-2010). Percentages.

Longitudinal
follow-up rate

Group 1
89.76

Total
89.76

Follow-up ratio. Rotational group and total (SILC 2009- 2010)

Follow-up
ratio
$\begin{array}{ll}\text { Group } 1 & 0.92 \\ \text { Total } & 0.92\end{array}$
Achieved sample size ratio. Rotational group and total (SILC 2009-2010)

> Achieved
> sample size
> ratio
Group 1
0.89
Total
0.89

Longitudinal component. Unit non-response. Waves t , t+1. Households.

Household response rates: Comparison of results codes between wave 2 and wave 3 (SILC 2008- 2009). Rotational group and total Group 3

|  | $\begin{aligned} & \text { DB130 }=11 \\ & \text { and DB135=1 } \end{aligned}$ | $\begin{aligned} & \text { DB130 }=11 \\ & \text { and DB135=2 } \end{aligned}$ | DB130=22 | DB130=23 | DB130=24 | DB130=21 | DB120=21 | $\begin{gathered} \text { DB110 }=3,4,- \\ 5,6,7 \end{gathered}$ | DB110=10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DB130=11 and DB135=1 | 3025 | 2 | 69 | 16 | 2 | 232 |  | 66 | 3 | 3415 |
| DB130=11 and DB135=2 | 4 |  |  |  |  |  |  |  |  | 4 |
| DB130=22 | 77 | . | 18 | 1 | 1 | 16 |  | 9 | . | 122 |
| DB130=23 | 7 | . | . | 2 | 1 | 2 | . | 2 | . | 14 |
| DB130=24 | 8 | . | . | . | . | 8 | . | . | . | 16 |
| DB110=8 (wave 3) | 74 | . | 2 |  | 1 | 7 | 8 |  | . | 92 |
| Total | 3195 | 2 | 89 | 19 | 5 | 265 | 8 | 77 | 3 | 3663 |

Total

|  | $\begin{aligned} & \text { DB130=11 } \\ & \text { and DB135=1 } \end{aligned}$ | $\begin{aligned} & \text { DB130=11 } \\ & \text { and DB135=2 } \end{aligned}$ | DB130=22 | DB130=23 | DB130=24 | DB130=21 | DB120=21 |  | $\begin{aligned} & 110=3,4,- \\ & 5,6,7 \end{aligned}$ | DB110=10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DB130=11 and DB135=1 | 3025 | 2 | 69 | 16 | 2 | 232 |  |  | 66 | 3 | 3415 |
| DB130=11 and DB135=2 | 4 | . | . | . | . | . |  |  | . |  | 4 |
| DB130=22 | 77 | . | 18 | 1 | 1 | 16 |  |  | 9 |  | 122 |
| DB130=23 | 7 | . | . | 2 | 1 | 2 |  | . | 2 | . | 14 |
| DB130=24 | 8 | . | . | . |  | 8 |  |  |  |  | 16 |
| DB110=8 (wave 3) | 74 | . | 2 | . | 1 | 7 |  | 8 | . | . | 92 |
| Total | 3195 | 2 | 89 | 19 | 5 | 265 |  | 8 | 77 | 3 | 3663 |

Wave response rates. Rotational group and total (SILC 2008- 2009). Percentages

|  | Wave <br> response <br> rate | Refusal <br> rate | No- <br> contacted <br> and others |
| :--- | :---: | :---: | ---: |
| Group 3 | 87.22 | 7.23 | 5.54 |
| Total | 87.22 | 7.23 | 5.54 |

Longitudinal follow-up rates. Rotational group and total (SILC 2008- 2009). Percentages.

$$
\begin{aligned}
& \text { Longitudinal } \\
& \text { follow-up } \\
& \text { rate }
\end{aligned}
$$

Group 3
89.89

Follow-up ratio. Rotational group and total (SILC 2008- 2009)

> Follow-up ratio

Group 3
0.92

Total
0.92

Achieved sample size ratio. Rotational group and total (SILC 2008-2009)

> Achieved
> sample size
> ratio

| Group 3 | 0.94 |
| :--- | :--- |
| Total | 0.94 |

Household response rates: Comparison of results codes between wave 3 and wave 4 (SILC 2009- 2010). Rotational group and total
Group 3

|  | $\begin{gathered} \text { DB130 }=11 \\ \text { and } \text { DB135=1 } \end{gathered}$ | DB130=22 | DB130=23 | DB130=24 | DB130=21 | DB120=21 | $\begin{gathered} \text { DB110 }=3,4,- \\ 5,6,7 \end{gathered}$ | DB110 $=10$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DB130=11 and DB135=1 | 2909 | 53 | 11 | 3 | 155 |  | 57 | 7 | 3195 |
| DB130=11 and DB135=2 | . |  | . |  | 2 |  | . | . | 2 |
| DB130=22 | 39 | 15 | . | 1 | 8 |  | 7 | 1 | 71 |
| DB130=23 | 11 | . | . | . | 4 |  | 1 | . | 16 |
| DB130=24 | 2 | . | . | . | 1 |  | . | . | 3 |
| DB110=8 (wave 3) | 61 | 3 | . | . | 9 | 1 | 1 . | . | 74 |
| Total | 3022 | 71 | 11 | 4 | 179 | 1 | 65 | 8 | 3361 |

Group 4


Total

|  | and DB135=1 and | DB135=2 | DB130=22 | DB130 $=23$ | DB130 $=24$ | DB130 $=21$ | DB120=21 | 5,6,7 | DB110 $=10$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DB130=11 and DB135=1 | 5980 | 1 | 129 | 23 | 5 | 370 |  | 118 | 9 | 6635 |
| DB130=11 and DB135=2 | 1 | . | . | . |  | 2 |  | 1 | . | 4 |
| DB130=22 | 81 | . | 39 | . | 2 | 23 |  | 13 | 1 | 159 |
| DB130=23 | 18 | . | . | 1 | . | 6 | . | 5 | . | 30 |
| DB130=24 | 5 | . | . | . | . | 5 | . | 2 | . | 12 |
| DB110=8 (wave 3) | 132 | . | 6 | 1 |  | 19 | 10 |  |  | 168 |
| Total | 6217 | 1 | 174 | 25 | 7 | 425 | 10 | 139 | 10 | 7008 |

Wave response rates. Rotational group and total (SILC 2009- 2010). Percentages.

|  | Wave <br> response <br> rate | Refusal <br> rate | No- <br> contacted others <br> and |
| :--- | :---: | :---: | ---: |
| Group 3 | 89.91 | 5.33 | 4.76 |
| Group 4 | 87.61 | 6.75 | 5.65 |
| Total | 88.71 | 6.06 | 5.22 |

Longitudinal follow-up rates. Rotational group and total (SILC 2009-2010). Percentages.

> Longitudinal
> follow-up
> rate

| Group 3 | 92.12 |
| :--- | :--- |
| Group 4 | 90.49 |
| Total | 91.27 |

Group 4
90.49

Follow-up ratio. Rotational group and total (SILC 2009-2010)

Follow-up
ratio

| Group 3 | 0.94 |
| :--- | :--- |
| Group 4 | 0.93 |

Total 0.93
Achieved sample size ratio. Rotational group and total (SILC 2009-2010)

> Achieved
> sample size
> ratio

| Group 3 | 0.95 |
| :--- | :--- |
| Group 4 | 0.93 |
| Total | 0.94 |

PERSONS

Longitudinal component. Unit non-response. Persons

Personal interview response rates: Rotational group and total. (SILC 2007-2008).
Group 3
Sample persons (rb100=1
and rb245 in (1,2,3))
from the sample
orwarded from last wave (t-1)

RB250 =
(11,12,13) $\quad$ RB250 $=14$
Total
RB110 in (1, 2)
7654
23
7677

Total

> Sample persons $($ rb100 $=1$
> and rb245 in $(1,2,3))$
> from the sample
> forwarded from last
wave (t-1)
RB250 =
11,12,13) RB250=14 Total
RB110 in $(1,2) 7654237677$
Personal interview response rates: Rotational group and total. (SILC 2007-2008).
Group 3

This wave
Non-sample persons 16+
RB250 =
$(11,12,13) \quad$ RB250 $=14 \quad$ Total

Total

Non-sample persons 16+
RB250 =
(11,12,13) RB250=14 Total
This wave
206
13
219
Response rates for persons. Wave response rate. Rotational group and total. Percentages. (SILC 2007-2008).
Wave
response
rate of
sample
persons
99.70
99.70

Total
99.70

Response rates for persons. Longitudinal follow-up rate. Rotational group and total. Percentages. (SILC 2007- 2008).

|  | Longitudinal <br> follow-up <br> rate | Rate <br> $(R B 250=14)$ | Rate <br> $(R B 250=21)$ | Rate <br> $(R B 250=22)$ | Rate <br> $(R B 250=23)$ | Rate <br> $(R B 250=31)$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| (RB250=32) | $(R B 250=33)$ |  |  |  |  |  |

Response rates for persons. Response rate for non-sample persons. Rotational group and total. (SILC 2007-2008).

> Response
> rate for non
> sample
> persons
$\begin{array}{ll}\text { Group } 3 & 94.06 \\ \text { Total } & 94.06\end{array}$
Achieved sample size ratio. Rotational group and total. (SILC 2007-2008).

Achieved \begin{tabular}{c}
Achieved <br>
sample size <br>
ratio for <br>
sample size <br>
ratio for <br>
sample <br>
persons

$\quad$

persons and <br>
co-residents
\end{tabular}

Personal interview response rates: Rotational group and total. (SILC 2008-2009).

Group 4
Sample persons (rb100=1 and rb245 in (1,2,3))
from the sample
forwarded from last
wave (t-1)
$\mathrm{RB} 250=$
$11,12,13)$
Total
RB110 in $(1,2)$
$7751 \quad 92$

Total
Sample persons (rb100=1
and rb245 in (1,2,3)
from the sample
orwarded from last wave (t-1)

RB250 =
$(11,12,13) \quad$ RB250=14
Total
RB110 in $(1,2) 7751927843$
Personal interview response rates: Rotational group and total. (SILC 2008-2009).
Group 4
Non-sample persons 16+
RB250 $=$
11,12,13) RB250=14 Total
This wave
$215 \quad 12$
227

Total
Non-sample persons 16+
RB250 =

$$
(11,12,13) \quad \text { RB250=14 }
$$

Total
This wave
215 12

Response rates for persons. Wave response rate. Rotational group and total. Percentages. (SILC 2008- 2009).
Wave
response
rate of
sample
persons

| Group 4 | 98.83 |
| :--- | :--- |
| Total | 98.83 |

Response rates for persons. Longitudinal follow-up rate. Rotational group and total. Percentages. (SILC 2008- 2009).

|  | Longitudinal follow-up rate | $\begin{gathered} \text { Rate } \\ (\text { RB250=14) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=21) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=22) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=23) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=31) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=32 }) \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=33) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Group 4 | 98.83 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 98.83 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Response rates for persons. Response rate for non-sample persons. Rotational group and total. (SILC 2008- 2009).

> Response
> rate for non
> sample
> persons

| Group 4 | 94.71 |
| :--- | :--- |
| Total | 94.71 |

Achieved sample size ratio. Rotational group and total. (SILC 2008-2009).

Achieved
Achieved sample size
sample size ratio for
ratio for sample
sample persons and
persons co-residents
Group 4
$87.27 \quad 89.69$
Total
$87.27 \quad 89.69$
Personal interview response rates: Rotational group and total. (SILC 2008-2009).
Group 3

> Sample persons $($ rb100 $=1$
> and rb245 in $(1,2,3))$
> from the sample
> forwarded from last

## wave (t-1)

RB250 =
(11,12,13) RB250=14 Total
RB110 in (1,2)
6733
97
6830

Total
Sample persons (rb100=1
and rb245 in $(1,2,3)$
from the sample
forwarded from last wave ( $t-1$ )
RB250 =
(11,12,13) RB250=14
Total
RB110 in $(1,2) 6733676$
Personal interview response rates: Rotational group and total. (SILC 2008-2009).
Group 3
Non-sample persons 16+

> RB250 =
$(11,12,13) \quad$ RB250 $=14$
Total
This wave
$351 \quad 11$
362

Total
Non-sample persons 16+
RB250 =
11,12,13) RB250=14 Total
This wave
351
11 362

Response rates for persons. Wave response rate. Rotational group and total. Percentages. (SILC 2008- 2009).
Wave
response
rate of
sample
persons

Group $3 \quad 98.58$
Total
98.58
98.58

Response rates for persons. Longitudinal follow-up rate. Rotational group and total. Percentages. (SILC 2008- 2009).

|  | Longitudinal follow-up rate | $\begin{gathered} \text { Rate } \\ (\text { RB250=14 }) \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=21) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=22) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=23 }) \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=31) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=32) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ \text { (RB250=33) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Group 3 | 98.58 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 98.58 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Response rates for persons. Response rate for non-sample persons. Rotational group and total. (SILC 2008- 2009).

> Response
> rate for non
> sample
> persons

| Group 3 | 96.96 |
| :--- | :--- |
| Total | 96.96 |

Achieved sample size ratio. Rotational group and total. (SILC 2008- 2009).
$\left.\begin{array}{ccc} & \begin{array}{c}\text { Achieved } \\ \text { sample size } \\ \text { ratio for } \\ \text { sample } \\ \text { persons }\end{array} & \begin{array}{c}\text { Achieved } \\ \text { sample size } \\ \text { ratio for } \\ \text { sample }\end{array} \\ \text { persons and } \\ \text { co-residents }\end{array}\right]$

Personal interview response rates: Rotational group and total. (SILC 2009-2010).
Group 1
Sample persons (rb100=1
and rb245 in (1,2,3) )
from the sample
orwarded from last
wave (t-1)
RB250 =

$$
(11,12,13) \quad R B 250=14
$$

Total
7745

Total

> Sample persons (rb100=1
> and rb245 in $(1,2,3))$ from the sample
> forwarded from last
wave (t-1)
RB250 =
(11,12,13) RB250=14 Total
RB110 in $(1,2) 7640 \quad 105 \quad 7745$
Personal interview response rates: Rotational group and total. (SILC 2009-2010).
Group 1

$$
\begin{array}{ccc}
\text { RB250 }= \\
(11,12,13) & \text { RB250=14 } & \text { Total }
\end{array}
$$

This wave

## Non-sample persons 16+

RB250 =
$190 \quad 10$

Total
Non-sample persons 16+
RB250 =
$11,12,13) \quad$ RB250 $=14$
Total
This wave
190
10
200
Response rates for persons. Wave response rate. Rotational group and total. Percentages. (SILC 2009-2010).

> Wave
> response
> rate of
> sample
> persons
$\begin{array}{ll}\text { Group } 1 & 98.64 \\ \text { Total } & 98.64\end{array}$
Response rates for persons. Longitudinal follow-up rate. Rotational group and total. Percentages. (SILC 2009- 2010).

|  | Longitudinal follow-up rate | $\begin{gathered} \text { Rate } \\ (\text { RB250=14) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=21) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ \text { (RB250=22) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ \text { (RB250=23) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ \text { (RB250=31) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ \text { (RB250=32) } \end{gathered}$ | $\begin{gathered} \text { Rate } \\ (\text { RB250=33) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Group 1 | 98.64 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 98.64 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Response rates for persons. Response rate for non-sample persons. Rotational group and total. (SILC 2009-2010).

Response
rate for non
sample
persons
Group 1
Total
95.00
95.00

Achieved sample size ratio. Rotational group and total. (SILC 2009-2010).

| Achieved | Achieved <br> sample size <br> ratio for |
| :---: | :---: |
| sample size |  |
| ratio for |  |
| sample | persons and <br> persons <br> co-residents |
| 86.44 | 88.59 |
| 86.44 | 88.59 |


| Group 1 | 86.44 | 88.59 |
| :--- | :--- | :--- |
| Total | 86.44 | 88.59 |

Personal interview response rates: Rotational group and total. (SILC 2009-2010).
Group 3
Sample persons (rb100=1 and rb245 in (1,2,3))
from the sample
orwarded from last
wave (t-1)
RB250 = $(11,12,13) \quad$ RB250 $=14$

Total
6354

## Group 4

> Sample persons (rb100=1
> and rb245 in $(1,2,3))$ from the sample
> forwarded from last

$$
\text { wave }(t-1)
$$

RB250 =
$(11,12,13) \quad$ RB250 $=14$
Total
RB110 in $(1,2)$
6914
86 7000

Total
Sample persons (rb100=1
and rb245 in (1,2,3)
from the sample
orwarded from last wave ( $t-1$ )
RB250 =
$(11,12,13) \quad R B 250=14$
Total
RB110 in $(1,2) 13197 \quad 157 \quad 13354$

Personal interview response rates: Rotational group and total. (SILC 2009-2010).
Group 3
Non-sample persons 16+

## RB250 = <br> $(11,12,13) \quad$ RB250 $=14$ <br> Total

This wave
518
13

Group 4

## Non-sample persons 16+

RB250 =
11,12,13) RB250=14 Total
This wave
$315 \quad 11$
326

Total
Non-sample persons $16+$
RB250 =
$(11,12,13) \quad$ RB250 $=14$
Total
This wave
833
24
857
Response rates for persons. Wave response rate. Rotational group and total. Percentages. (SILC 2009- 2010).

|  | Wave <br> response <br> rate of <br> sample <br> persons |
| :--- | ---: |
| Group 3 | 98.88 |
| Group 4 | 98.77 |
| Total | 98.82 |

Response rates for persons. Longitudinal follow-up rate. Rotational group and total. Percentages. (SILC 2009- 2010).

|  | Longitudinal <br> follow-up <br> rate | Rate <br> $(R B 250=14)$ | Rate <br> $(R B 250=21)$ | Rate <br> $(R B 250=22)$ | Rate <br> $(R B 250=23)$ | Rate <br> $(R B 250=31)$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Group 3 | 9.88 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| (RB250=32) |  |  |  |  |  |  |

Response rates for persons. Response rate for non-sample persons. Rotational group and total. (SILC 2009-2010).

> Response
> rate for non
> sample
> persons

Group 3
Group 4
96
Total
97.20

Achieved sample size ratio. Rotational group and total. (SILC 2009-2010).

| Achieved | Achieved <br> sample size |
| :---: | :---: |
| sample size |  |
| ratio for |  |
| ratio for |  |
| sample | sample |
| persons | co-residents and |
| 90.94 | 93.68 |
| 89.20 | 90.75 |
| 90.02 | 92.15 |

2.3.3.3. Distribution of households by 'record of contact at address' (DB120), by 'household questionnaire result’ (DB130) and by ‘household interview acceptance’ (DB135)

Longitudinal component. Distribution of households by DB100, DB120, DB130 and DB135 SILC 2007. Distribution of households by DB110

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 6745 | 100.0 |
| DB110 $=9$ | 6745 | 100.0 |

SILC 2007. Distribution of households by DB120

## Number Percentage

| Total | 6745 | 100.0 |
| :--- | ---: | ---: |
| DB120 $=11$ (contacted) | 6045 | 89.6 |
| DB120 $=21$ (can not be located) | 126 | 1.9 |
| DB120=22 (unable to access) | 7 | 0.1 |
| DB120 $=23$ (not exists or non-res.) | 567 | 8.4 |

SILC 2007. Distribution of households by DB130

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total |  |  |
| DB130=11 (household q. completed) | 6045 | 100.0 |
| DB130=21 (refusal to cooperate) | 3833 | 63.4 |
| DB130=22 (temporaly away) | 1228 | 20.3 |
| DB130=23 (unable to respond) | 846 | 14.0 |
| DB130=24 (other reasons) | 52 | 0.9 |
|  | 86 | 1.4 |

SILC 2007. Distribution of households by DB135

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 3833 | 100.0 |
| DB135=1 (interview accepted) | 3833 | 100.0 |

SILC 2008. Distribution of households by DB110
Number Percentage

| Total | 10604 | 100.0 |
| :--- | ---: | ---: |
| DB110 $=1$ | 3709 | 35.0 |
| DB110 $=2$ | 69 | 0.7 |
| DB110 $=3$ | 11 | 0.1 |
| DB110 $=4$ | 5 | 0.0 |
| DB110 $=5$ | 5 | 0.0 |
| DB110 $=6$ | 6 | 0.1 |
| DB110=7 | 28 | 0.3 |
| DB110=8 | 113 | 1.1 |
| DB110 $=9$ | 6658 | 62.8 |

SILC 2008. Distribution of households by DB120

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 6840 | 100.0 |
| DB120=11 (contacted) | 6132 | 89.6 |
| DB120=21 (can not be located) | 136 | 2.0 |
| DB120=22 (unable to access) | 8 | 0.1 |
| DB120=23 (not exists or non-res.) | 564 | 8.2 |

SILC 2008. Distribution of households by DB130

|  | Number | Percentage |
| :--- | ---: | ---: |
|  |  |  |
| Total | 9841 | 100.0 |
| DB130=11 (household q. completed) | 7297 | 74.1 |
| DB130=21 (refusal to cooperate) | 1267 | 12.9 |
| DB130=22 (temporaly away) | 1094 | 11.1 |
| DB130=23 (unable to respond) | 54 | 0.5 |
| DB130=24 (other reasons) | 129 | 1.3 |

SILC 2008. Distribution of households by DB135

## Number Percentage

Total
DB135=1 (interview accepted)
DB135=2 (interview rejected)

| 7297 | 100.0 |
| ---: | ---: |
| 7290 | 99.9 |
| 7 | 0.1 |

SILC 2009. Distribution of households by DB110

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 13912 | 100.0 |
| DB110=1 | 7139 | 51.3 |
| DB110=2 | 146 | 1.0 |
| DB110=3 | 19 | 0.1 |
| DB110=4 | 18 | 0.1 |
| DB110=5 | 23 | 0.2 |
| DB110=6 | 6 | 0.0 |
| DB110 $=7$ | 91 | 0.7 |
| DB110 $=8$ | 180 | 1.3 |
| DB110 $=9$ | 6286 | 45.2 |
| DB110 $=10$ | 4 | 0.0 |

SILC 2009. Distribution of households by DB120

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 6612 | 100.0 |
| DB120=11 (contacted) | 5881 | 88.9 |
| DB120=21 (can not be located) | 77 | 1.2 |
| DB120=22 (unable to access) | 15 | 0.2 |
| DB120=23 (not exists or non-res.) | 637 | 9.6 |
| (Missing) | 2 | 0.0 |

SILC 2009. Distribution of households by DB130

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 13020 | 100.0 |
| DB130=11 (household q. completed) | 10567 | 81.2 |
| DB130=21 (refusal to cooperate) | 1361 | 10.5 |
| DB130=22 (temporaly away) | 915 | 7.0 |
| DB130=23 (unable to respond) | 67 | 0.5 |
| DB130=24 (other reasons) | 110 | 0.8 |

SILC 2009. Distribution of households by DB135

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 10567 | 100.0 |
| DB135=1 (interview accepted) | 10562 | 100.0 |
| DB135=2 (interview rejected) | 5 | 0.0 |

SILC 2010. Distribution of households by DB110

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 11047 | 100.0 |
| DB110=1 | 10310 | 93.3 |
| DB110 $=2$ | 230 | 2.1 |
| DB110=3 | 15 | 0.1 |
| DB110=4 | 19 | 0.2 |
| DB110=5 | 46 | 0.4 |
| DB110=6 | 21 | 0.2 |
| DB110=7 | 116 | 1.1 |
| DB110=8 | 280 | 2.5 |
| DB110 $=10$ | 10 | 0.1 |

SILC 2010. Distribution of households by DB120

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 510 | 100.0 |
| DB120=11 (contacted) | 489 | 95.9 |
| DB120=21 (can not be located) | 20 | 3.9 |
| (Missing) | 1 | 0.2 |

SILC 2010. Distribution of households by DB130

|  | Number | Percentage |
| :--- | ---: | ---: |
|  |  |  |
| Total | 10799 | 100.0 |
| DB130=11 (household q. completed) | 9700 | 89.8 |
| DB130=21 (refusal to cooperate) | 759 | 7.0 |
| DB130=22 (temporaly away) | 285 | 2.6 |
| DB130=23 (unable to respond) | 40 | 0.4 |
| DB130=24 (other reasons) | 15 | 0.1 |

SILC 2010. Distribution of households by DB135

Number Percentage

Total
DB135=1 (interview accepted) DB135=2 (interview rejected)
$9700 \quad 100.0$
$9699 \quad 100.0$
0.0
2.3.3.4. Distribution of persons for membership status (RB110)

Distribution of persons for membership status (RB110)
SILC 2008. Distribution of person for membership status (RB110)

|  |  | Number | Percentage |
| :--- | :--- | ---: | ---: |
| Total |  | 20255 | 100.0 |
| Current hhd | RB110=1 | 19624 | 96.9 |
| members | RB110=2 | 97 | 0.5 |
|  | RB110=3 | 250 | 1.2 |
| No current hdd | RB110=4 | 73 | 0.4 |
| members | RB120=2 to 4 | 115 | 0.6 |
|  | RB110=7 | 64 | 0.3 |
|  |  | 32 | 0.2 |

SILC 2008. Distribution of person for membership status (RB110). RB110=5

|  | Number | Percentage |
| :--- | ---: | ---: |
| Total | 254 | 100.0 |
| RB120=1 and current hhd member | 97 | 38.2 |
| RB120=1 and no current hhd member | 42 | 16.5 |
| RB120=2 | 9 | 3.5 |
| RB120=3 | 12 | 4.7 |
| RB120=4 | 94 | 37.0 |
| SILC 2009. Distribution of person for membership status (RB110) |  |  |


|  |  | Number | Percentage |
| :--- | ---: | ---: | ---: |
| Total |  | 29422 | 100.0 |
| Current had | RB110=1 | 28336 | 96.3 |
| members | RB110 $=2$ | 172 | 0.6 |
|  | RB110=3 | 501 | 1.7 |
| No current hdd | RB110=4 | 116 | 0.4 |
| members | RB120 $=2$ to 4 | 179 | 0.6 |
|  | RB110 $=6$ | 98 | 0.3 |
|  |  | 20 | 0.1 |

SILC 2009. Distribution of person for membership status (RB110). RB110=5

| Total |  |  |
| :--- | ---: | ---: |
| RB120=1 and current hhd member | 403 | 100.0 |
| RB120=1 and no current hhd member | 154 | 38.2 |
| RB120=2 | 70 | 17.4 |
| RB120=3 | 12 | 3.0 |
| RB120=4 | 42 | 10.4 |

SILC 2010. Distribution of person for membership status (RB110)

|  |  | Number | Percentage |
| :--- | ---: | ---: | ---: |
| Total |  | 27118 | 100.0 |
| Current hhd | RB110=1 | 25504 | 94.0 |
| members | RB110 $=2$ | 284 | 1.0 |
|  | RB110 $=3$ | 600 | 2.2 |
| No current hdd | RB110=4 | 231 | 0.9 |
| RB120 $=2$ to 4 | 310 | 1.1 |  |
| members | RB110=6 | 152 | 0.6 |
|  | RB110 $=7$ | 37 | 0.1 |

SILC 2010. Distribution of person for membership status (RB110). RB110=5

| Total | 715 | 100.0 |
| :--- | ---: | ---: |
| RB120 $=1$ and current hhd member | 260 | 36.4 |
| RB120=1 and no current hhd member | 145 | 20.3 |
| RB120=2 | 22 | 3.1 |
| RB120 $=3$ | 66 | 9.2 |
| RB120=4 | 222 | 31.0 |

### 2.3.3.5. Item non-response

Longitudinal component. Item non-response. Net amounts.
SILC 2007. Distribution of item non-response. Net amounts.

Total disposable household income
T. d. h. income before s. tr. other than old_age and surv. ben. T. d. h. income before s. tr. including old_age and surv. ben. Net income from rental of a property or land Family/children-related allowances
Social exclusion not elsewhere classified Housing allowances
Regular inter-household cash transfer received
Net interest, div., profit from capital invest. in uninc. business Net interest, div., profit from capital inve
Net income received by people aged under 16
Net income received by people aged under 16
Regular taxes on wealth
Regular inter-household cash transfer paid
Repayments/receipts for tax adjustments

Net cash or near cash employee income
Net non-cash employee income
Net cash profits or losses from self-employment
Net pension from individual private plans
Net pension from individu
Net unemployment bene
Net old-age benefits
Net survivors benefits
Net sickness benefits
Net disability benefits
Education-related allowances

|  | \% | \% |  |
| :---: | :---: | :---: | :---: |
| \% | households | with | households |$\quad$| with |
| :---: |
| households |


| 99.6 | 5.3 | 40.0 | 54.7 |
| :---: | :---: | :---: | :---: |
| 98.5 | 5.9 | 39.0 | 55.1 |
| 89.2 | 10.3 | 37.6 | 52.1 |
| 6.2 | 6.3 | 16.0 | 77.7 |
| 3.1 | 1.7 | 0.0 | 98.3 |
| 0.6 | 4.3 | 0.0 | 95.7 |
| 0.9 | 5.9 | 0.0 | 94.1 |
| 3.6 | 7.2 | 0.0 | 92.8 |
| 33.1 | 46.3 | 34.3 | 19.4 |
| 3.1 | 0.8 | 0.0 | 99.2 |
| 3.7 | 38.7 | 11.3 | 50.0 |
| 5.7 | 7.8 | 0.5 | 91.8 |
| 67.9 | 7.0 | 2.8 | 90.2 |
|  | \% persons with missing | \% persons with partial | \% persons with total |
| 16+ having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |
| 46.3 | 14.3 | 0.0 | 85.7 |
| 0.7 | 21.2 | 0.0 | 78.8 |
| 6.6 | 29.9 | 37.3 | 32.8 |
| 0.5 | 13.3 | 0.0 | 86.7 |
| 4.6 | 7.8 | 0.0 | 92.2 |
| 20.0 | 6.3 | 0.1 | 93.6 |
| 1.6 | 2.8 | 0.0 | 97.2 |
| 1.4 | 8.0 | 0.0 | 92.0 |
| 2.2 | 7.1 | 0.0 | 92.9 |
| 1.3 | 7.7 | 0.0 | 92.3 |

SILC 2008. Distribution of item non-response. Net amounts.

Total disposable household income
T. d. h. income before s. tr. other than old_age and surv. ben
T. d. h. income before s. tr. including old_age and surv. ben.

Net income from rental of a property or land
Family/children-related allowances
Social exclusion not elsewhere classified Housing allowances
Regular inter-household cash transfer received
Net interest, div., profit from capital invest. in uninc. business Net income received by people aged under 16
Regular taxes on wealth
Regular inter-household cash transfer paid
Repayments/receipts for tax adjustments

Net cash or near cash employee income
Net non-cash employee income
Net cash profits or losses from self-employment
Net pension from individual private plans
Net unemployment benefits
Net old-age benefits
Net survivors benefits
Net sickness benefits
Net disability benefits
Education-related allowances

|  | households | households | \% |
| :---: | :---: | :---: | :---: |
| \% | with | with | households |
| households | missing | partial | with total |
| having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |


| 99.3 | 3.3 | 42.0 | 54.7 |
| :---: | :---: | :---: | :---: |
| 98.5 | 3.9 | 41.4 | 54.8 |
| 89.4 | 8.0 | 40.0 | 52.0 |
| 6.7 | 3.9 | 10.7 | 85.4 |
| 3.8 | 4.0 | 0.7 | 95.3 |
| 0.6 | 2.2 | 0.0 | 97.8 |
| 0.9 | 4.5 | 0.0 | 95.5 |
| 3.0 | 6.5 | 0.0 | 93.5 |
| 37.4 | 42.3 | 39.8 | 17.9 |
| 2.2 | 1.2 | 0.0 | 98.8 |
| 3.4 | 32.9 | 13.3 | 53.8 |
| 5.9 | 5.3 | 0.0 | 94.7 |
| 69.9 | 6.4 | 1.9 | 91.6 |
| \% persons | $\begin{aligned} & \text { \% persons } \\ & \text { with } \\ & \text { missing } \end{aligned}$ | \% persons <br> with <br> partial | \% persons with total |
| 16+ having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |
| 46.8 | 12.0 | 0.0 | 88.0 |
| 0.8 | 21.6 | 0.0 | 78.4 |
| 7.5 | 18.7 | 46.8 | 34.5 |
| 0.6 | 10.4 | 0.0 | 89.6 |
| 5.1 | 5.6 | 0.1 | 94.3 |
| 20.3 | 4.9 | 0.2 | 94.8 |
| 1.5 | 2.7 | 0.0 | 97.3 |
| 1.2 | 7.7 | 0.0 | 92.3 |
| 2.4 | 2.7 | 0.0 | 97.3 |
| 1.5 | 3.5 | 0.0 | 96.5 |

SILC 2009. Distribution of item non-response. Net amounts.

Total disposable household income
T. d. h. income before s. tr. other than old_age and surv. ben T. d. h. income before s. tr. including old_age and surv. ben. Net income from rental of a property or land
Family/children-related allowances
Social exclusion not elsewhere classified Housing allowances
Regular inter-household cash transfer received Net interest, div., profit from capital invest. in uninc. business Net income received by people aged under 16
Regular taxes on wealth
Regular inter-household cash transfer paid
Repayments/receipts for tax adjustments

```
Net cash or near cash employee income
Net non-cash employee income
Net cash profits or losses from self-employment
Net pension from individual private plans
Net pension from individual private plans
Net old-age benefits
Net survivors benefits
Net sickness benefits
Net disability benefits
Education-related allowances
```

|  | households <br> with | households <br> with | \% <br> households |
| :---: | :---: | :---: | :---: |
| \% | with | with | households |
| households | missing | partial | with total |
| having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |
| 99.4 | 2.8 | 34.6 | 62.6 |
| 98.4 | 3.3 | 34.0 | 62.8 |
| 88.5 | 6.6 | 33.7 | 59.8 |
| 6.8 | 2.0 | 12.3 | 85.8 |
| 3.8 | 3.0 | 0.5 | 96.5 |
| 0.9 | 0.0 | 0.0 | 100.0 |
| 1.2 | 4.6 | 0.0 | 95.4 |
| 3.2 | 2.9 | 0.0 | 97.1 |
| 29.2 | 31.0 | 37.7 | 31.3 |
| 2.9 | 1.0 | 0.0 | 99.0 |
| 3.0 | 27.6 | 13.7 | 58.7 |
| 6.1 | 2.8 | 0.0 | 97.2 |
| 71.9 | 6.4 | 2.2 | 91.4 |
|  | \% persons with | \% persons with | \% persons |
| \% persons | missing | partial | with total |
| 16+ having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |


| 46.4 | 11.1 | 0.0 | 88.9 |
| ---: | ---: | ---: | ---: |
| 0.9 | 16.8 | 0.0 | 83.2 |
| 7.2 | 15.8 | 52.5 | 31.6 |
| 0.7 | 9.6 | 0.0 | 90.4 |
| 7.4 | 4.7 | 0.1 | 95.3 |
| 20.4 | 3.5 | 0.1 | 96.3 |
| 1.6 | 1.5 | 0.0 | 98.5 |
| 1.4 | 4.7 | 0.0 | 95.3 |
| 2.2 | 2.6 | 0.0 | 97.4 |
| 2.0 | 4.7 | 0.0 | 95.3 |


| 46.4 | 11.1 | 0.0 | 88.9 |
| ---: | ---: | ---: | ---: |
| 0.9 | 16.8 | 0.0 | 83.2 |
| 7.2 | 15.8 | 52.5 | 31.6 |
| 0.7 | 9.6 | 0.0 | 90.4 |
| 7.4 | 4.7 | 0.1 | 95.3 |
| 20.4 | 3.5 | 0.1 | 96.3 |
| 1.6 | 1.5 | 0.0 | 98.5 |
| 1.4 | 4.7 | 0.0 | 95.3 |
| 2.2 | 2.6 | 0.0 | 97.4 |
| 2.0 | 4.7 | 0.0 | 95.3 |



SILC 2010. Distribution of item non-response. Net amounts.

Total disposable household income
T. d. h. income before s. tr. other than old_age and surv. ben T. d. h. income before s. tr. including old_age and surv. ben. Net income from rental of a property or land
Family/children-related allowances
Social exclusion not elsewhere classified Housing allowances
Regular inter-household cash transfer received
Net interest, div., profit from capital invest. in uninc. business Net income received by people aged under 16
Regular taxes on wealth
Regular inter-household cash transfer paid
Repayments/receipts for tax adjustments

Net cash or near cash employee income
Net non-cash employee income
Net cash profits or losses from self-employment
Net pension from individual private plans
Net unemployment benefits
Net old-age benefits
Net survivors benefits
Net sickness benefits
Net disability benefits
Education-related allowances

| \% | households with | households with | \% households |
| :---: | :---: | :---: | :---: |
| households | missing | partial | with total |
| having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |
| 99.5 | 1.8 | 30.6 | 67.6 |
| 98.2 | 2.4 | 30.2 | 67.5 |
| 88.7 | 5.1 | 30.4 | 64.5 |
| 7.3 | 2.4 | 9.7 | 87.9 |
| 4.3 | 1.2 | 0.2 | 98.6 |
| 2.9 | 0.4 | 0.0 | 99.6 |
| 1.5 | 3.5 | 0.0 | 96.5 |
| 3.3 | 2.5 | 0.0 | 97.5 |
| 28.8 | 23.7 | 37.7 | 38.6 |
| 3.0 | 1.0 | 0.0 | 99.0 |
| 0.0 |  |  |  |
| 6.3 | 3.1 | 0.2 | 96.7 |
| 74.4 | 5.3 | 2.1 | 92.6 |
|  | \% persons with | \% persons with | \% persons |
| \% persons | missing | partial | with total |
| 16+ having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |


| 44.4 | 6.5 | 0.0 | 93.5 |
| ---: | ---: | ---: | ---: |
| 0.8 | 10.1 | 0.0 | 89.9 |
| 6.9 | 18.2 | 54.6 | 27.2 |
| 0.8 | 11.1 | 0.0 | 88.9 |
| 9.0 | 2.1 | 0.0 | 97.9 |
| 20.7 | 2.0 | 0.0 | 97.9 |
| 1.6 | 0.9 | 0.0 | 99.1 |
| 1.1 | 3.6 | 0.0 | 96.4 |
| 2.4 | 1.9 | 0.0 | 98.1 |
| 2.3 | 2.3 | 0.0 | 97.7 |

Longitudinal component. Item non-response. Gross amounts.

SILC 2007. Distribution of item non-response. Gross amounts.

Total household gross income
Gross income from rental of a property or land
Gross family/children-related allowances
Gross social exclusion not elsewhere classified
Gross housing allowances
Gross regular inter-household cash transfer received
Gross interest, div., profit from capital invest. in uninc. business Gross income received by people aged under 16
Gross regular taxes on wealth
Gross regular inter-household cash transfer paid

Gross cash or near cash employee income
Gross non-cash employee income
Gross cash profits or losses from self-employment
Gross pension from individual private plans
Gross unemployment benefits
Gross old-age benefits
Gross survivors benefits
Gross sickness benefits
Gross disability benefits
Gross education-related allowances

|  | households | \% households | \% |
| :---: | :---: | :---: | :---: |
| \% | with | with | households |
| households | missing | partial | with total |
| having | values | information | information |
| eceived an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |


| 99.5 | 6.2 | 56.0 | 37.8 |
| :---: | :---: | :---: | :---: |
| 6.2 | 6.3 | 33.6 | 60.1 |
| 3.1 | 1.7 | 3.4 | 94.9 |
| 0.6 | 4.3 | 0.0 | 95.7 |
| 0.9 | 5.9 | 0.0 | 94.1 |
| 3.6 | 7.2 | 0.0 | 92.8 |
| 33.1 | 46.3 | 34.9 | 18.8 |
| 3.1 | 0.8 | 0.0 | 99.2 |
| 3.7 | 38.7 | 11.3 | 50.0 |
| 5.7 | 7.8 | 0.5 | 91.8 |
|  | \% persons with | \% persons | \% persons |
| \% persons | missing | partial | with total |
| 16+ having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |

Total household gross income
Gross income from rental of a property or land
Gross family/children-related allowances
Gross social exclusion not elsewhere classified
Gross housing allowances
Gross regular inter-household cash transfer received
Gross interest, div., profit from capital invest. in uninc. business Gross income received by people aged under 16
Gross regular taxes on wealth
Gross regular inter-household cash transfer paid

[^1]| \% <br> households having received an amount | $\%$ households with missing values (before imputation) | $\%$ households with partial information (before imputation) | \% <br> households with total information (before imputation) |
| :---: | :---: | :---: | :---: |
| 99.3 | 3.6 | 58.0 | 38.4 |
| 6.7 | 3.9 | 26.0 | 70.1 |
| 3.8 | 4.0 | 4.0 | 92.0 |
| 0.6 | 2.2 | 0.0 | 97.8 |
| 0.9 | 4.5 | 0.0 | 95.5 |
| 3.0 | 6.5 | 0.0 | 93.5 |
| 37.4 | 42.3 | 40.6 | 17.2 |
| 2.2 | 1.2 | 0.0 | 98.8 |
| 3.4 | 32.9 | 13.3 | 53.8 |
| 5.9 | 5.3 | 0.0 | 94.7 |
|  | \% persons with | \% persons with | \% persons |
| \% persons | missing | partial | with total |
| 16+ having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |
| 46.8 | 12.0 | 35.7 | 52.3 |
| 0.8 | 21.6 | 0.0 | 78.4 |
| 7.5 | 14.0 | 38.4 | 47.5 |
| 0.6 | 10.4 | 6.6 | 83.0 |
| 5.1 | 5.6 | 4.8 | 89.6 |
| 20.3 | 4.9 | 9.9 | 85.2 |
| 1.5 | 2.7 | 5.4 | 91.9 |
| 1.2 | 7.7 | 2.9 | 89.4 |
| 2.4 | 2.7 | 0.0 | 97.3 |
| 1.5 | 3.5 | 0.0 | 96.5 |

Total household gross income
Gross income from rental of a property or land
Gross family/children-related allowances
Gross social exclusion not elsewhere classified
Gross housing allowances
Gross regular inter-household cash transfer received
Gross interest, div., profit from capital invest. in uninc. business Gross income received by people aged under 16
Gross regular taxes on wealth
Gross regular inter-household cash transfer paid

[^2]| ```% households having received an amount``` | $\%$ households with missing values (before imputation) | $\%$ households with partial information (before imputation) | \% <br> households <br> with total <br> information <br> (before <br> imputation) |
| :---: | :---: | :---: | :---: |
| 99.0 | 3.2 | 53.0 | 43.8 |
| 6.8 | 2.0 | 26.3 | 71.8 |
| 3.8 | 3.0 | 4.2 | 92.8 |
| 0.9 | 0.0 | 0.0 | 100.0 |
| 1.2 | 4.6 | 0.0 | 95.4 |
| 3.2 | 2.9 | 0.0 | 97.1 |
| 29.2 | 31.0 | 39.4 | 29.6 |
| 2.9 | 1.0 | 0.0 | 99.0 |
| 3.0 | 27.6 | 13.7 | 58.7 |
| 6.1 | 2.8 | 0.0 | 97.2 |
|  | \% persons with | \% persons with | \% persons |
| \% persons | missing | partial | with total |
| 16+ having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |
| 46.4 | 11.1 | 36.6 | 52.4 |
| 0.9 | 16.8 | 0.0 | 83.2 |
| 7.2 | 15.0 | 37.5 | 47.5 |
| 0.7 | 9.6 | 4.8 | 85.5 |
| 7.4 | 4.7 | 9.8 | 85.6 |
| 20.4 | 3.5 | 11.5 | 85.0 |
| 1.6 | 1.5 | 3.5 | 95.0 |
| 1.4 | 4.7 | 13.5 | 81.9 |
| 2.2 | 2.6 | 0.0 | 97.4 |
| 2.0 | 4.7 | 0.0 | 95.3 |

SILC 2010. Distribution of item non-response. Gross amounts.

Total household gross income
Gross income from rental of a property or land
Gross family/children-related allowances
Gross social exclusion not elsewhere classified
Gross housing allowances
Gross regular inter-household cash transfer received
Gross interest, div., profit from capital invest. in uninc. business Gross income received by people aged under 16
Gross regular taxes on wealth
Gross regular inter-household cash transfer paid

Gross cash or near cash employee income
Gross non-cash employee income
Gross cash profits or losses from self-employment
Gross pension from individual private plans
Gross unemployment benefits
Gross old-age benefits
Gross survivors benefits
Gross sickness benefits
Gross disability benefits
Gross education-related allowances

| households having received an amount | $\%$ households with missing values (before imputation) | $\%$ households with partial information (before imputation) | \% <br> households with total information (before imputation) |
| :---: | :---: | :---: | :---: |
| 99.1 | 1.8 | 54.3 | 44.0 |
| 7.3 | 2.4 | 23.0 | 74.6 |
| 4.3 | 1.2 | 5.5 | 93.3 |
| 2.9 | 0.4 | 0.0 | 99.6 |
| 1.5 | 3.5 | 0.0 | 96.5 |
| 3.3 | 2.5 | 0.0 | 97.5 |
| 28.8 | 23.7 | 38.7 | 37.7 |
| 3.0 | 1.0 | 0.0 | 99.0 |
| 0.0 | . |  |  |
| 6.3 | 3.1 | 0.2 | 96.7 |
| \% persons | \% persons <br> with <br> missing | \% persons <br> with <br> partial | \% persons with total |
| 16+ having | values | information | information |
| received an | (before | (before | (before |
| amount | imputation) | imputation) | imputation) |
| 44.4 | 6.5 | 43.0 | 50.5 |
| 0.8 | 10.1 | 0.0 | 89.9 |
| 6.9 | 16.3 | 38.4 | 45.3 |
| 0.8 | 11.1 | 1.8 | 87.1 |
| 9.0 | 2.0 | 14.0 | 84.0 |
| 20.7 | 2.0 | 12.7 | 85.3 |
| 1.6 | 0.9 | 6.0 | 93.1 |
| 1.1 | 3.6 | 21.0 | 75.4 |
| 2.4 | 1.9 | 0.0 | 98.1 |
| 2.3 | 2.3 | 0.0 | 97.7 |

### 2.4. Mode of data collection

Questionnaires are completed by CAPI (Compute Aided Personal Interviewing). This procedure was been implemented in the 2005 operation (in 2004 questionnaires were completed by PAPI).

The main mode of data collection was personal interview with all household members who were aged 16 and above as at 31 December of the year before the year of interview.

If personal interview was impracticable because the subject was temporarily absent or was unable to respond, we would conduct a telephone interview or interview another household member and later corroborate the information with the subject.

The percentage of proxy interviews is very high in the Spanish SILC. It is related to the individual nonresponse.

One of the major concerns is the individual non-response after the bad results in 2004 survey (15.63 \%). Since the 2005 survey an effort in fieldwork has been made to reduce this individual non-response. Once the individual non-response has been reduced, there is from 2005 a high rate of proxy interviews that we are trying to reduce.

Longitudinal component. Mode of data collection
SILC 2007. Distribution of household members aged 16 and over by RB245.

|  |  | Number | Percentage |
| :--- | :--- | ---: | ---: |
|  |  |  |  |
| Total | Total | 8884 | 100.0 |
|  | RB250=11 | 8822 | 99.3 |
|  | RB250=14 | 62 | 0.7 |
| Sample | Total | 8884 | 100.0 |
| persons | RB250=11 | 8822 | 99.3 |
|  | RB250=14 | 62 | 0.7 |

SILC 2007. Distribution of household members aged 16 and over by RB260.

|  |  | Number | Percentage |
| :--- | :--- | ---: | ---: |
|  |  |  |  |
| Total | Total | 8821 | 100.0 |
|  | RB260=2 | 4899 | 55.5 |
|  | RB260 $=3$ | 306 | 3.5 |
|  | RB260=5 | 3616 | 41.0 |
| Sample | Total | 8821 | 100.0 |
| persons | RB260=2 | 4899 | 55.5 |
|  | RB260=3 | 306 | 3.5 |
|  | RB260=5 | 3616 | 41.0 |

SILC 2008. Distribution of household members aged 16 and over by RB245.

|  |  | Number | Percentage |
| :--- | :--- | ---: | ---: |
| Total | Total | 16829 | 100.0 |
|  | RB250=11 | 16742 | 99.5 |
| Sample | RB250=14 | 87 | 0.5 |
| persons | Total | 16610 | 100.0 |
|  | RB250=11 | 16536 | 99.6 |
| Co-residents | RB250=14 | 74 | 0.4 |
|  | Rotal | 219 | 100.0 |
|  | RB250=11 | 206 | 94.1 |
|  | RB250=14 | 13 | 5.9 |

SILC 2008. Distribution of household members aged 16 and over by RB260.

## Number Percentage

| Total | Total | 16742 | 100.0 |
| :---: | :---: | :---: | :---: |
|  | RB260=2 | 9408 | 56.2 |
|  | RB260=3 | 746 | 4.5 |
|  | RB260=5 | 6588 | 39.4 |
| Sample | Total | 16536 | 100.0 |
| persons | RB260=2 | 9339 | 56.5 |
|  | RB260=3 | 738 | 4.5 |
|  | RB260=5 | 6459 | 39.1 |
| Co-residents | Total | 206 | 100.0 |
|  | RB260=2 | 69 | 33.5 |
|  | RB260=3 | 8 | 3.9 |
|  | RB260=5 | 129 | 62.6 |

SILC 2009. Distribution of household members aged 16 and over by RB245.

|  |  | Number | Percentage |
| :--- | :--- | ---: | ---: |
| Total | Total | 24396 | 100.0 |
|  | RB250=11 | 24064 | 98.6 |
| Sample | RB250=14 | 332 | 1.4 |
| persons | Total | 23807 | 100.0 |
|  | RB250=11 | 23498 | 98.7 |
| Co-residents | RB250=14 | 309 | 1.3 |
|  | Total | 589 | 100.0 |
|  | RB250=11 | 566 | 96.1 |
|  | RB250=14 | 23 | 3.9 |

SILC 2009. Distribution of household members aged 16 and over by RB260.

## Number Percentage

| Total | Total | 24064 | 100.0 |
| :--- | :--- | ---: | ---: |
|  | RB260=2 | 13499 | 56.1 |
|  | RB260=3 | 1039 | 4.3 |
|  | RB260=5 | 9526 | 39.6 |
| Sample | Total | 23498 | 100.0 |
| persons | RB260=2 | 13295 | 56.6 |
|  | RB260=3 | 1010 | 4.3 |
| Co-residents | RB260=5 | 9193 | 39.1 |
|  | Total | 566 | 100.0 |
|  | RB260=2 | 204 | 36.0 |
|  | RB260=3 | 29 | 5.1 |
|  | RB260=5 | 333 | 58.8 |

SILC 2010. Distribution of household members aged 16 and over by RB245.

|  |  | Number | Percentage |
| :--- | :--- | ---: | ---: |
| Total | Total | 22355 | 100.0 |
|  | RB250=11 | 22057 | 98.7 |
| Sample | RB250=14 | 298 | 1.3 |
| persons | Total | 21298 | 100.0 |
|  | RB250=11 | 21034 | 98.8 |
| Co-residents | RB250=14 | 264 | 1.2 |
|  | Total | 1057 | 100.0 |
|  | RB250=11 | 1023 | 96.8 |
|  | RB250=14 | 34 | 3.2 |

SILC 2010. Distribution of household members aged 16 and over by RB260.

## Number Percentage

| Total | Total | 22057 | 100.0 |
| :---: | :---: | :---: | :---: |
|  | RB260=2 | 13101 | 59.4 |
|  | RB260=3 | 3981 | 18.0 |
|  | RB260=5 | 4975 | 22.6 |
| Sample | Total | 21034 | 100.0 |
| persons | RB260=2 | 12718 | 60.5 |
|  | RB260=3 | 3740 | 17.8 |
|  | RB260=5 | 4576 | 21.8 |
| Co-residents | Total | 1023 | 100.0 |
|  | RB260=2 | 383 | 37.4 |
|  | RB260=3 | 241 | 23.6 |
|  | RB260=5 | 399 | 39.0 |

### 2.5. Imputation procedure

The imputation in the Spanish SILC uses a methodology similar to the one used by Eurostat for the ECHP. The reference of the procedure applied is described in the document SILC136.

The statistical imputation software used has been IVE-ware. This software is easy to use and has been used in ECHP with satisfactorily results. The IVE-ware approach consists of a multivariate model involving a multiple regression sequence. For each variable the best regression method is chosen according to the nature of the variable being imputed. The continuous variable, that is the case in income variables, is imputed with a normal linear regression model.

Before imputation, in the checking phase, some points need to be solved. In case that the filter of an income component is "missing", it is checked if there are some other signs, from other variables, to correct this filter. The same procedure is used to determine the number of months that the unit has received an income component.

In the imputation phase the first step is to determine if a variable should be imputed or not determining the value of the filter for the income component. If the filter variable is set to "No" the rule is that no imputation needs to be done. If instead the answer to the filter variable is "missing", after the checking phase, then "No" is imputed to the filter. If the filter is "Yes" and there is not enough information then imputation is needed.

Once the filter is known the following step is the calculation of the amount of the income component. If there is enough information to calculate the target variable then it is calculated. The amounts of the previous wave are used when available. If the amount cannot be calculated then it is imputed with the restriction of an interval. This interval can be specified in the questionnaire or, if this doesn't exist, an interval is calculated using information of the distribution of the collected values. After a logarithmic transformation the imputation is carried out jointly with others components collected at the same level (household or individual). All records with missing values, for income components, are imputed.

The method to solve the within-household non-response is based on the imputation of a personal income to the persons without individual questionnaire. The imputed personal income is the mean of personal incomes of the group to which the person belongs. Groups are formed with available information (using R -file) for all persons (sex, age, activity, etc.).

Cross-sectional component.
SILC 2010. Percentage of imputation per household income components (average of the ratio of imputation over all units)

| Percentage |  |
| :--- | ---: |
| Total disposable household income |  |
| T. d. h. income before s. tr. other than old_age and surv. ben. | 7.42 |
| T. d. h. income before s. tr. including old_age and surv. ben. | 7.98 |
| Net income from rental of a property or land | 10.67 |
| Family/children-related allowances | 0.40 |
| Social exclusion not elsewhere classified | 0.07 |
| Housing allowances | 0.01 |
| Regular inter-household cash transfer received | 0.08 |
| Net interest, div., profit from capital invest. in uninc. business | 0.12 |
| Net income received by people aged under 16 | 12.04 |
| Regular taxes on wealth | 0.03 |
| Regular inter-household cash transfer paid | 0.00 |
| Repayments/receipts for tax adjustments | 0.20 |

SILC 2010. Percentage of imputation per personal income components (average of the ratio of imputation over all units)

Percentage

| Net cash or near cash employee income | 3.49 |
| :--- | :--- |
| Net non-cash employee income | 0.09 |
| Net cash profits or losses from self-employment | 2.70 |
| Net pension from individual private plans | 0.09 |
| Net unemployment benefits | 0.21 |
| Net old-age benefits | 0.60 |
| Net survivors benefits | 0.03 |
| Net sickness benefits | 0.04 |
| Net disability benefits | 0.07 |
| Education-related allowances | 0.07 |
| Gross monthly earnings for employees | 3.62 |

Longitudinal component.

SILC 2007. Percentage of imputation per household income components (average of the ratio of imputation over all units)

## Percentage

| Total disposable household income |  |
| :--- | ---: |
| T. d. h. income before s. tr. other than old_age and surv. ben. | 12.92 |
| T. d. h. income before s. tr. including old_age and surv. ben. | 13.41 |
| Net income from rental of a property or land | 16.89 |
| Family/children-related allowances | 0.59 |
| Social exclusion not elsewhere classified | 0.05 |
| Housing allowances | 0.03 |
| Regular inter-household cash transfer received | 0.05 |
| Net interest, div., profit from capital invest. in uninc. business | 0.26 |
| Net income received by people aged under 16 | 20.53 |
| Regular taxes on wealth | 0.03 |
| Regular inter-household cash transfer paid | 1.50 |
| Repayments/receipts for tax adjustments | 0.45 |

SILC 2007. Percentage of imputation per personal income components (average of the ratio of imputation over all units)

## Percentage

| Net cash or near cash employee income | 6.64 |
| :--- | :--- |
| Net non-cash employee income | 0.16 |
| Net cash profits or losses from self-employment | 2.83 |
| Net pension from individual private plans | 0.07 |
| Net unemployment benefits | 0.36 |
| Net old-age benefits | 1.27 |
| Net survivors benefits | 0.05 |
| Net sickness benefits | 0.11 |
| Net disability benefits | 0.16 |
| Education-related allowances | 0.10 |

SILC 2008. Percentage of imputation per household income components (average of the ratio of imputation over all units)

|  | Percentage |
| :---: | :---: |
| Total disposable household income | 10.31 |
| T. d. h. income before s. tr. other than old_age and surv. ben. | 10.96 |
| T. d. h. income before s. tr. including old_age and surv. ben. | 14.94 |
| Net income from rental of a property or land | 0.44 |
| Family/children-related allowances | 0.17 |
| Social exclusion not elsewhere classified | 0.01 |
| Housing allowances | 0.04 |
| Regular inter-household cash transfer received | 0.19 |
| Net interest, div., profit from capital invest. in uninc. business | 22.95 |
| Net income received by people aged under 16 | 0.03 |
| Regular taxes on wealth | 1.17 |
| Regular inter-household cash transfer paid | 0.32 |
| Repayments/receipts for tax adjustments | 4.87 |
| SILC 2008. Percentage of imputation per personal income components (average of the ratio imputation over all units) |  |
|  | Percentage |
| Net cash or near cash employee income | 5.61 |
| Net non-cash employee income | 0.18 |
| Net cash profits or losses from self-employment | 2.57 |
| Net pension from individual private plans | 0.07 |
| Net unemployment benefits | 0.29 |
| Net old-age benefits | 1.02 |
| Net survivors benefits | 0.04 |
| Net sickness benefits | 0.10 |
| Net disability benefits | 0.07 |
| Education-related allowances | 0.05 |

SILC 2009. Percentage of imputation per household income components (average of the ratio of imputation over all units)

|  | Percentage |
| :--- | ---: |
| Total disposable household income | 9.52 |
| T. d. h. income before s. tr. other than old_age and surv. ben. | 9.96 |
| T. d. h. income before s. tr. including old_age and surv. ben. | 13.05 |
| Net income from rental of a property or land | 0.34 |
| Family/children-related allowances | 0.12 |
| Social exclusion not elsewhere classified | 0.00 |
| Housing allowances | 0.06 |
| Regular inter-household cash transfer received | 0.09 |
| Net interest, div., profit from capital invest. in uninc. business | 13.73 |
| Net income received by people aged under 16 | 0.03 |
| Regular taxes on wealth | 0.88 |
| Regular inter-household cash transfer paid | 0.17 |
| Repayments/receipts for tax adjustments | 5.03 |
| SILC 2009. Percentage of imputation per personal income components | (average of |
| imputation over all units) | the |
|  | ratio |
|  |  |
| Net cash or near cash employee income | Percentage |
| Net non-cash employee income |  |
| Net cash profits or losses from self-employment | 5.14 |
| Net pension from individual private plans | 0.15 |
| Net unemployment benefits | 2.62 |
| Net old-age benefits | 0.07 |
| Net survivors benefits | 0.35 |
| Net sickness benefits | 0.73 |
| Net disability benefits | 0.02 |

SILC 2010. Percentage of imputation per household income components (average of the ratio of imputation over all units)

|  | Percentage |
| :---: | :---: |
| Total disposable household income | 6.43 |
| T. d. h. income before s. tr. other than old_age and surv. ben. | 6.93 |
| T. d. h. income before s. tr. including old_age and surv. ben. | 9.81 |
| Net income from rental of a property or land | 0.37 |
| Family/children-related allowances | 0.05 |
| Social exclusion not elsewhere classified | 0.01 |
| Housing allowances | 0.05 |
| Regular inter-household cash transfer received | 0.08 |
| Net interest, div., profit from capital invest. in uninc. business | 11.71 |
| Net income received by people aged under 16 | 0.03 |
| Regular taxes on wealth | 0.00 |
| Regular inter-household cash transfer paid | 0.20 |
| Repayments/receipts for tax adjustments | 4.42 |
| SILC 2010. Percentage of imputation per personal income components (average of the ratio imputation over all units) |  |
| Percentage |  |
| Net cash or near cash employee income | 2.88 |
| Net non-cash employee income | 0.08 |
| Net cash profits or losses from self-employment | 2.74 |
| Net pension from individual private plans | 0.08 |
| Net unemployment benefits | 0.19 |
| Net old-age benefits | 0.42 |
| Net survivors benefits | 0.01 |
| Net sickness benefits | 0.04 |
| Net disability benefits | 0.04 |
| Education-related allowances | 0.05 |

### 2.6. Imputed rent

The variable imputed rent (HYO3O) is calculated using the stratified-method rent (HYO3Oe) and the subjective rent (HHO61). These two concepts of renting are added up proportionally to build the imputed rent as follows:

## HYO3O $=0,70 *$ HYO3Oe $+0,30 * H H 061$

The variable subjective rent (HH061) is obtained from the questionnaire, however the $70 \%$ of the imputed rent is calculated by means of an stratified method that will be explained later.

## The selected variables

In order to calculate the imputed rent, by means of the stratified model, the following variables are used:

- Type of dwelling
- Degree of urbanization
- Number of rooms in the dwelling
- Time period in the dwelling (year of purchase or contract)

Indeed, to avoid the sample size for some variables, such as number of rooms, type of dwelling and year of contract, from being too small, some groups were made.

Groups for:

- Type of dwelling: type 1 (house), type 2 (flat in a less-than-ten dwelling building) and type 3 (flat in a more-than-nine dwelling building).
- Degree of urbanization: densely-populated, half densely-populated and sparsely-populated areas.
- Number of rooms in the dwelling: less than 4, 4,5, and more than 5.
- Time period in the dwelling: before 1988, between 1988 and 2000 and beyond 2000.


## The strata

Our initial data set contains those households having a market-price rent, and we split them into groups according to some specification on some variable above mentioned. Then, each of these groups is again split into other groups according to any other variable not used before in previous division, in an nested way. The aim is to construct homogeneous stratums with a minimum sample size.

Once the stratification is done, each non market-price-rented household is assigned to one strata, and therefore the imputed rent value for this household, will be the strata mean rent.

Only when the household is a lower market price rent, the final imputed rent will be the strata mean rent minus the current rent.

| Strata 1 <br> - Densely-populated area <br> - Before 1988 <br> - Type of dwelling: I and II | Strata 2 <br> - Densely-populated area <br> - Before 1988 <br> - Type of dwelling: III <br> - Rooms: <= 4 | Strata 3 <br> - Densely-populated area <br> - Before 1988 <br> - Type of dwelling: III <br> - Rooms: >= 5 |
| :---: | :---: | :---: |
| Strata 4 <br> - Densely-populated area <br> - Within $(1988,2000)$ <br> - Type of dwelling: I and II <br> - Rooms: <= 4 | Strata 5 <br> - Densely-populated area <br> - Within $(1988,2000)$ <br> - Type of dwelling: I and II <br> - Rooms: >= 5 | Strata 6 <br> - Densely-populated area <br> - Within $(1988,2000)$ <br> - Type of dwelling: III |
| Strata 7 <br> - Densely-populated area <br> - Beyond 2000 <br> - Type of dwelling: I | Strata 8 <br> - Densely-populated area <br> - Beyond 2000 <br> - Type of dwelling: II | Strata 9 <br> - Densely-populated area <br> - Beyond 2000 <br> - Type of dwelling: III <br> - Rooms: < 4 |
| Strata 10 <br> - Densely-populated area <br> - Beyond 2000 <br> - Type of dwelling: III <br> - Rooms: 4 | Strata 11 <br> - Densely-populated area <br> - Beyond 2000 <br> - Type of dwelling: III <br> - Rooms: >= 5 | Strata 12 <br> - Half densely-populated area <br> - Type of dwelling: I |
| Strata 13 <br> - Half densely-populated area <br> - Type of dwelling: II <br> - Rooms: <= 4 | Strata 14 <br> - Half densely-populated area <br> - Type of dwelling: II <br> - Rooms: >= 5 | Strata 15 <br> - Half densely-populated area <br> - Type of dwelling: III |
| Strata 16 <br> - Sparcely-populated area <br> - Type of dwelling: I <br> - Rooms: <=4 | Strata 17 <br> - Sparcely-populated area <br> - Type of dwelling: I <br> - Rooms: >= 5 | Strata 18 <br> - Sparcely-populated area <br> - Type of dwelling: II <br> - Before 2001 |
| Strata 19 <br> - Sparcely-populated area <br> - Type of dwelling: II <br> - Beyond 2000 | Strata 20 <br> - Sparcely-populated area <br> - Type of dwelling: III |  |

### 2.7. Company cars

The method used to impute the value to the use of a company car is based in the Spanish Fiscal procedure to tax this non-cash income. We have two cases:

- The car is given to the employee. A market value is assigned depending of the value of the car supposing it is new and the age of the car, depreciating $20 \%$ of this value for each year. The information about the value (supposing the car is new) and the age of the car is asked to the respondent. If the car is 5 or more years old no amount is imputed.
- Only the use of the car is provided to the employee. The imputed income is $20 \%$ of the market value of the car supposing it is new. The value is adjusted proportionally with the percentage of private use. The information about the value (supposing the car is new), the age of the car and percentage of use is asked to the respondent. If the car is 5 or more years old no amount is imputed.


## 3. COMPARABILITY

### 3.1. Basic concepts and definitions

- Reference population. (No differences between national and EU-SILC concept.)

The target population was members of private households residing at main family addresses, and the households themselves.

Although all persons formed part of the target population, not all were surveyed exhaustively: only those who were aged 16 or over as at 31 December of the year before the year of interview.

- Private household definition. (No differences between national and EU-SILC concept.)

An individual or a group of people occupying in common a main family address or a part of it, and consuming and/or sharing food or other goods paid for out of a common budget.

- Household membership.

We have tried to implement in the field the definition of 'household member' given in the Commission Regulation. But, owing to the large number of possible special cases, and so as to reduce the number of related items on the questionnaire, there may be differences in some marginal cases.

To identify those differences, we provide a table below in which the left column itemises groups of people deemed household members under the definition given in the Regulation. On the right of the table we indicate whether such persons are household members under the definition used for the Spanish questionnaire.

Next we provide a reciprocal table in which the left column itemises groups of people deemed household members under the definition used for the Spanish questionnaire, while the right column indicates whether they are household members under the definition given in the Regulation.

## STANDARD DEFINITION OF HOUSEHOLD MEMBER ACCORDING TO EU-SILC (under Regulation)

| Present: <br> - Usually resident at the address <br> - Related to other household members <br> - Share expenses | (No differences between national and EU-SILC concept.) |
| :---: | :---: |
| Present: <br> - Usually resident at the address <br> - Not related to household members <br> - Share expenses | (No differences between national and EU-SILC concept.) |
| Present: <br> - Resident boarders, lodgers, tenants <br> - Have no private address elsewhere <br> - Share expenses | (No differences between national and EU-SILC concept.) |
| Present: <br> - Resident boarders, lodgers, tenants <br> - Actual or intended length of stay is 6 months or more <br> - Share expenses | - Have other address they treat as their usual residence. <br> Not a member of the interviewed household. <br> - Otherwise: No differences between national and EU-SILC concept. |
| Present: <br> - Visitors <br> - Have no private address elsewhere <br> - Share expenses | No differences between national and EU-SILC concept. |


| Present: <br> - Visitors <br> - Actual or intended length of stay is 6 months or more <br> - Share expenses | - Have other address they treat as their usual residence. <br> Not a member of the interviewed household. <br> - Otherwise: No differences between national and EU-SILC concept. |
| :---: | :---: |
| Present: <br> - Live-in domestic employees, au pairs <br> - Have no private address elsewhere <br> - Share expenses | No differences between national and EU-SILC concept. |
| Present: <br> - Live-in domestic employees, au pairs <br> - Actual or intended length of stay is 6 months or more <br> - Share expenses | - Have other address they treat as their usual residence. <br> Not a household member. <br> - Otherwise: No differences between national and EU-SILC concept. |
| Absent: <br> - Temporarily absent owing to holiday leave, work reasons, studies and similar <br> - Have no private address elsewhere <br> - Actual or intended length of stay is less than 6 months <br> - Share expenses | No differences between national and EU-SILC concept. |
| Absent: <br> - Temporarily absent owing to holiday leave, work reasons, studies and similar <br> - Have no private address elsewhere <br> - Actual or intended length of stay is more than 6 months <br> - Very close ties to household <br> - Share expenses | No differences between national and EU-SILC concept. |

## Absent:

- Children of the household
- Receiving education away from home
- Have no private address elsewhere

No differences between national and EU-SILC concept

- Treat this address as their main residence
- Share expenses

Absent:

- Persons with ties to the household away for extended periods for work reasons
- Have no private address elsewhere

No differences between national and EU-SILC concept.

- Must be a household member's partner or child
- Treat this address as their main residence
- Share expenses


## Absent:

- Temporarily absent persons with ties to the household
- In hospital, clinic or other institution
- Have financial ties to the household
- Actual or intended length of absence must be less than 6
- Share expenses (financial ties)

No differences between national and EU-SILC concept.

## Conclusion:

If a person is a household member according to the definition in the Regulation, he/she is also a household member under the national definition, except in the following group:

- Resident boarders, lodgers, tenants, visitors or domestic servants present at the place of interview
- Actual or intended length of stay is 6 months or more
- Have other address they treat as their usual residence and do not have close ties to household
- Share expenses

Under the Regulation, persons meeting the above conditions are treated as members of the household in which they are present. But they are not considered household members in the Spanish survey because priority is given to the fact that they have another address they regard as their usual residence. Due to the lack of sources is difficult to assess the impact of this difference, but we think it is marginal.

NATIONAL DEFINITION OF HOUSEHOLD MEMBER
(Cases contemplated in the Spanish version of the questionnaire)

DIFFERENCES FROM STANDARD DEFINITION OF HOUSEHOLD MEMBERS ACCORDING TO EU-SILC (under Regulation)

Present:

- Has no other address he/she treats as usual residence
- Shares income or expenditures with the household

Absent:

- In hospital, clinic or other institution, such as nursing home, prison, etc.
- Total length of stay to be less than 6 months
- Considers this his/her usual residence
- Shares income or expenditures with the household

Absent:

- Work reasons
- Considers this his/her usual residence
- Shares income or expenditures with the household

No differences between national and EU-SILC concept.

No differences between national and EU-SILC concept.
bsent:

- Study reasons
- Considers this his/her usual residence
- Shares income or expenditures with the household

No differences between national and EU-SILC concept.

No differences between national and EU-SILC concept.

## Absent:

- Travel
- Considers this his/her usual residence
- $\quad$ Shares income or expenditures with the household

No differences between national and EU-SILC concept.

## Conclusion:

If a person is a household member according to the national definition, he/she is also a household member under the Regulation definition.

- Income reference period.

The income reference period is the previous calendar year.

- Period for taxes on income and social insurance contributions.

We considered taxes received/paid during the income reference period. In the case of tax adjustments, these taxes usually refer to income received in previous years of the income reference period. For example in 2010 survey, only refunds/payments for tax adjustments (personal income tax - Spanish IRPF) paid/received in 2009 were provided. These taxes normally refer to income received in 2008, but there may be instances of income received in previous years.

- Reference period for taxes on wealth.

We considered the tax received/paid during the income reference period. Taxes on wealth has been suppressed for the income reference period in the 2010 survey.

- Lag between income reference period and current variables.

From 31 December of the year prior to the survey to the time of data collection (March-June). The lag thus ranged from 2 to 6 months.

- Total duration of the data collection of the sample.

March to June of the survey year.

- Basic information on activity status during the income reference period.

We used the definition given in document SILC065.

- Definition of "number of rooms" (HHO3O)

In 2004 and 2005 survey we tried to follow the definition given in Doc 65. From the 2006 survey, kitchens of at least 4 square meters are included.

### 3.2. Components of income

3.2.1. Differences between the national definitions and standard EU-SILC definitions, and an assessment, if available, of the consequences of the differences mentioned, for the following target variables:

- Total household gross income.

Provided for this survey.

- Total disposable household income.
(No differences between national and EU-SILC concept.)
Negative values are permitted.
- Total disposable household income, before social transfers other than old-age and survivors' benefits.
(No differences between national and EU-SILC concept.)
Negative values are permitted.
- Total disposable household income, before social transfers.
(No differences between national and EU-SILC concept.)
Negative values are permitted.
- Imputed rent.

Provided since the 2007 survey.

- Income from rental of property or land. (No differences between national and EU-SILC concept.)
(No differences between national and EU-SILC concept.)
- Family/children-related allowances.
(No differences between national and EU-SILC concept.)
- Social exclusion payments not elsewhere classified.
(No differences between national and EU-SILC concept.)
- Housing allowances.
(No differences between national and EU-SILC concept.)
- Regular inter-household cash transfers received.
(No differences between national and EU-SILC concept.)
- Interest, dividends, profit from capital investments in unincorporated businesses.
(No differences between national and EU-SILC concept.)
- Interest paid on mortgages.

Provided since the 2007 survey.

- Income received by people aged under 16.
(No differences between national and EU-SILC concept.)
- Regular taxes on wealth.

Taxes on wealth has been suppressed for the income reference period in the 2010 survey. (No differences between national and EU-SILC concept.)

- Regular inter-household transfers paid.
(No differences between national and EU-SILC concept.)
- Tax on income and social insurance contributions.

Provided for this survey.

- Refunds/receipts for tax adjustments (personal income tax - IRPF).
(No differences between national and EU-SILC concept.)
- Cash or near-cash employee income.
(No differences between national and EU-SILC concept.)
- Non-cash employee income.
(No differences between national and EU-SILC concept.)
- Employers' social insurance contributions.

Provided since the 2007 survey.
Only the compulsory social contributions are included. The voluntary social contributions are excluded.
According to the Labour Cost Survey (2008) the employers contributions to private plans are a $3 \%$ of the compulsory contributions.

- Cash profits or losses from self-employment (including royalties).
(No differences between national and EU-SILC concept.)
- Value of goods produced for own consumption.

Provided since the 2007 survey.

- Unemployment benefits.
(No differences between national and EU-SILC concept.)
- Old-age benefits.
(No differences between national and EU-SILC concept.)
- Survivors' benefits.
(No differences between national and EU-SILC concept.)
- Sickness benefits.
(No differences between national and EU-SILC concept.)
- Disability benefits.
(No differences between national and EU-SILC concept.)
- Education-related allowances.
(No differences between national and EU-SILC concept.)
- Contributions to individual private pension plans.
(No differences between national and EU-SILC concept.)
- Pension from individual private plans (other than those covered under ESSPROSS).
(No differences between national and EU-SILC concept.)


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

As in previous years, we used personal interview as the method to collect income variables.

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

As in previous years, we gave respondents the option of reporting income gross and/or net (of tax on income at source and, if applicable, of social contributions) at component level. The interviewee normally states income net at source although in some cases gives too gross. The form in which the net amounts are recorded in database are net of tax on income at source and, if applicable, of social contributions.
3.2.4. The method used for obtaining income target variables in the required form

As in previous years:
Net amounts. Target income variables were reported net of tax on income at source and, where applicable, net of social contributions.

Gross amounts. Target gross income variables have also been obtained, reported directly by the respondent or using a net-to-gross conversion model.

This model is based on social security contributions and tax retentions. There are four possible conversion types to be applied to each of the income components:
Type I includes components having social security contributions and tax withholding at source, type II includes components having tax withholding at source, type III includes a flat rate tax retention, and type IV makes gross equal to net.

Social security contributions are calculated from gross income, employment, activity and education level. In turn, the tax withholding at source is obtained applying the taxation rules at source.

### 3.3. Tracing rules

Standard EU-SILC tracing rules are applied.

## 4. COHERENCE

### 4.1 Comparison of income target variables and number of persons who receive income from each 'income component', with external sources

Comparison with external sources is difficult because the definitions used do not match. The difficulty stems from the definition of the income component itself, which affects comparison of the number of people receiving a given income component, and affects comparison of the amount.

A very large proportion of social transfers, for instance, depends on Autonomous Communities (selfruling region), and so it is very hard to bring all the available information together.

Nevertheless, we provide a range of tables to offer a guide to the structure of income distribution using other sources and some information about the activity status.

The available results from external sources come from:

- EU-SILC 2009 (previous year SILC)
- Labour Force Survey (LFS)
- INE National Accounts
- The Boletín de Estadísticas Laborales (labour statistics journal) of the Ministry of Labour and Social Affairs (social benefits)
- Tax Authorities sources

Starting with the current Survey on Income and Living Conditions (SILC) results, the following table itemises number of recipients, average income, average monthly income (taking account of 14 annual pay packets) and total income by component. Figures are given net (net of income tax at source and, where applicable, net of social contributions) and gross.

To make it easier to compare social transfers, we have removed the constraint that all survivors' and disability benefits for persons aged 65 and above are treated as old-age benefits.

SILC 2010. Source: Spanish Living Conditions Survey (SILC 2010). Adult recipients by income type (net figures)

|  | Recipients (thousands) | Average income 2009 (euros) | Average monthly income 2009 (euros) | ```Total income 2009 (millions of euros)``` |
| :---: | :---: | :---: | :---: | :---: |
| Cash employee income | 18.427 | 15.353 | 1.097 | 282.908 |
| Non-cash employee income | 2.663 | 1.624 | 116 | 4.325 |
| Cash profits or losses from self-employment | 2.689 | 8.387 | 599 | 22.554 |
| Unemployment benefits | 3.963 | 4.631 | 331 | 18.351 |
| Old-age benefits | 5.744 | 12.133 | 867 | 69.691 |
| Survivors benefits | 1.722 | 8.153 | 582 | 14.044 |
| Disability benefits | 1.083 | 9.068 | 648 | 9.819 |


|  | Recipients (thousands) | Average income 2009 (euros) | Average monthly income 2009 (euros) | Total income 2009 (millions of euros) |
| :---: | :---: | :---: | :---: | :---: |
| Cash employee income | 18.427 | 18.626 | 1.330 | 343.235 |
| Non-cash employee income | 2.663 | 1.624 | 116 | 4.325 |


| Cash profits or losses from self-employment | 2.689 | 11.765 | 840 | 31.638 |
| :--- | ---: | ---: | ---: | ---: |
| Unemployment benefits | 3.963 | 4.761 | 340 | 18.870 |
| Old-age benefits | 5.744 | 12.815 | 915 | 73.610 |
| Survivors benefits | 1.722 | 8.319 | 594 | 14.330 |
| Disability benefits | 1.083 | 9.150 | 654 | 9.907 |

SILC 2010. Source: Spanish Living Conditions Survey (SILC 2010). Recipient households by income type (net figures)

|  | Recipient households (thousands | Average income 2009 (euros) | Total <br> income 2009 <br> (millions of euros) |
| :---: | :---: | :---: | :---: |
| Income from rental of a property or land | 1.081 | 6.641 | 7.178 |
| Interest, div., profit from capital invest. | 4.308 | 950 | 4.091 |

SILC 2010. Source: Spanish Living Conditions Survey (SILC 2010). Recipient households by income type (gross figures)

|  | Recipient households (thousands | Average income 2009 (euros) | Total <br> income 2009 (millions of euros) |
| :---: | :---: | :---: | :---: |
| Income from rental of a property or land | 1.081 | 7.418 | 8.018 |
| Interest, div., profit from capital invest. | 4.308 | 1.106 | 4.765 |

The results for the activity are:
SILC 2010. Source: Spanish Living Conditions Survey (SILC 2010). Adults by activity status (thousands)

| Persons | Adults |
| :---: | :---: |
| (thousands) | (percentages) |


| Total | $38.450,8$ | 100.0 |
| :--- | ---: | ---: |
| Employment | $17.787,2$ | 46.3 |
| Unemployment | $3.889,3$ | 10.1 |
| Inactive population | $16.694,4$ | 43.4 |
| Missing | 80,0 | 0.2 |

## SILC 2009

These results for the previous year are:

SILC 2009. Source: Spanish Living Conditions Survey (SILC 2009). Adult recipients by income type (net figures)


|  | Average | Average monthly | Total <br> income 2008 |
| :---: | :---: | :---: | :---: |
| Recipients | income 2008 | income 2008 | (millions |
| (thousands) | (euros) | (euros) | of euros) |
| 19.098 | 18.627 | 1.331 | 355.749 |
| 2.850 | 1.586 | 113 | 4.518 |
| 2.905 | 12.596 | 900 | 36.594 |
| 3.165 | 4.022 | 287 | 12.730 |
| 5.824 | 12.655 | 904 | 73.697 |
| 1.643 | 8.008 | 572 | 13.157 |
| 973 | 9.390 | 671 | 9.136 |

SILC 2009. Source: Spanish Living Conditions Survey (SILC 2009). Recipient households by income type (net figures)

|  | Recipient <br> households <br> (thousands | Total <br> income 2008 <br> (euros) | income 2008 <br> (millions <br> of euros) |
| :--- | ---: | ---: | ---: |
| Income from rental of a property or land | 1.043 | 6.562 | 6.847 |
| Interest, div., profit from capital invest. | 4.565 | 975 | 4.450 |

SILC 2009. Source: Spanish Living Conditions Survey (SILC 2009). Recipient households by income type (gross figures)

|  | Recipient households (thousands | Average income 2008 (euros) | Total income 2008 (millions of euros) |
| :---: | :---: | :---: | :---: |
| Income from rental of a property or land | 1.043 | 7.351 | 7.670 |
| Interest, div., profit from capital invest. | 4.565 | 1.143 | 5.217 |

We can observe a reduction in the average income in some components. We also observe an increase of the number of recipients of unemployment benefits.

## LFS

The number of persons by activity status according to the LFS (first quarter of 2010) is:

|  | Persons <br> (thousands) | Adults <br> (percentages) |
| :--- | ---: | ---: |
| Total | $38.450,8$ | 100.0 |
| Employment | $18.394,2$ | 47,8 |
| Unemployment | $4.612,7$ | 12,0 |
| Inactive population | $15.444,0$ | 40,2 |

In the Spanish SILC there is some underreporting of the number of persons in employment.

## INE National Accounts

To compare with the results for other components of income we can use the interim National Accounts 2009. The following table presents data on "Accounts for the total economy and institutional sectors" ("Table of current accounts and accumulated accounts") of the household sector (millions of euros).

| D.11. | Wages and salaries | 411.003 |
| :--- | :--- | ---: |
| B.3b | Gross mixed income | 166.972 |
| D. 621 | Social security benefits in cash | 133.494 |
| D. 41 | Interest | 19.518 |
| D. 42 | Income distributed by corporations | 23.475 |
| D.45 | Income from land | 827 |

To compare National Accounts and SILC data, account must be taken of the fact that the definition of income components and amount values (net/gross) are not always the same.

Concerning the employee income the amount for SILC is: $343.235+4.325=347.560$ (survey 2010). For NA the employee income is 411.003 (year 2009).
'Net cash profits or losses from self-employment', 'income from rental of a property or land' and 'net interest, dividends, profit from capital investment in unincorporated business' are very poorly picked up by interview, so comparison is not possible. 'Income from rental of a property or land' under SILC is treated as mixed income in NA.

The differences between National Accounts and SILC are less with regard to figures on social benefits.

## Labour statistics journal (social benefits)

For social transfers we have the following data from the Boletín de Estadísticas Laborales (labour statistics journal) of the Ministry of Labour and Social Affairs.

Social Security pension contributions 2009

Pensions by scheme, class, years, number and average figure
Units: Number: thousands of pensions. Average figure: euros per month

|  | 2009 |  |
| :--- | ---: | ---: |
|  | Number | Average <br> figure |
| TOTAL |  |  |
| Total | $8.531,93$ | 754,06 |
| Permanent disability | 920,86 | 831,49 |
| Retirement | $5.038,86$ | 854,12 |
| Widowhood | $2.270,28$ | 553,89 |
| Orphanhood | 264,20 | 339,71 |

## Benefits not tied to contributions 2009

Beneficiaries of benefits not tied to contributions by mode, class and year Units: Number of beneficiaries (annual average)

|  | 2009 |
| :--- | :--- |
| SOCIAL SECURITY PENSIONS NOT TIED TO CONTRIBUTIONS (1) | 458.034 |
| Disability | 197.126 |
| Retirement | 260.908 |

Comparing the number of benefits payees by type, we find the largest differences relate to survivors' benefits, 1.722 as against $2.270,28+264,20(=2.534,48)$. The largest differences in average amount are found in disability pensions (but it should be borne in mind that the average amount of pensions not tied to contributions is unknown).

The available statistics on unemployment refer only to the average annual number of beneficiaries of unemployment benefits and subsidies (2.681.223 in 2009). Other benefits and the turnover of unemployed workers in the year are not reflected, therefore.

## Tax Authorities sources

In relation to Fiscal sources the Tax Agency produces yearly the publication Mercado de Trabajo y Pensiones en Las Fuentes Tributarias 2009 (Labour market and Pensions in Tax Sources). The reference period is the year 2009 and the amounts in the fiscal sources are gross.

Number of persons with employee income and amount annual average

|  | Employees | Income (annual average) euros |
| ---: | ---: | ---: |
| Total | 18.451 .827 | 19.085 |

There are not important differences between the two sources (SILC and Fiscal sources).

Number of persons with pensions income and amount annual average

|  | Pensioners | Pension (annual average) euros |
| ---: | ---: | ---: |
| Total | 8.996 .206 | 11.364 |

There are not important differences between the two sources (SILC and Fiscal sources) if we consider in EU-SILC together old-age, survivors and disability benefits.

Number of persons with unemployment benefits and amount annual average
Unemployed Benefits (annual average) euros
$\begin{array}{ll} & \text { Total } 5.525 .758 \longrightarrow 4.010\end{array}$
The difference between the two sources (SILC and Fiscal sources) can be explained if EU-SILC, perhaps, is not able of collecting cases of very short periods of unemployment.


[^0]:    ${ }^{1}$ Except in Cantabria and the Autonomous Community of Madrid, where groups have been brought together owing to the small sample size.

[^1]:    Gross cash or near cash employee income
    Gross non-cash employee income
    Gross cash profits or losses from self-employment
    Gross pension from individual private plans
    Gross unemployment benefits
    Gross old-age benefits
    Gross survivors benefits
    Gross sickness benefits
    Gross disability benefits
    Gross education-related allowances

[^2]:    Gross cash or near cash employee income
    Gross non-cash employee income
    Gross cash profits or losses from self-employment
    Gross pension from individual private plans
    Gross unemployment benefits
    Gross old-age benefits
    Gross survivors benefits
    Gross sickness benefits
    Gross disability benefits
    Gross education-related allowances

