



SILC DISCLOSURE CONTROL RULES

YEAR 2021

LONGITUDINAL DATA

DIFFERENCES BETWEEN ORIGINAL DATABASE (as described in the guidelines) AND THE ANONYMISED USER DATABASE

In order to ensure disclosure control and confidentiality of the UDB, some variables collected were removed or changed. On the other hand, in order to ease the use of the data, some variables were added.

This document summarizes the changes between the data collected by countries as described in the 2021 guidelines and the user database.

1. GENERAL RULES

Applied for all countries except when specified on point 2

INCOME VARIABLES

All variables are in € (EURO). For the countries not members of the euro area the conversion factor can be found in variables **HX010** and **PX010**.

Income data (EURO) *i.e.* **HY020** * **HX010** = income data (national currency).

CALCULATED ADDED VARIABLES

(computed only for **RB110** in (1,2,3,4))

RX010: Age at the time of interview (=RB082)

RX020: Age at the end of income reference period (=RB081)

HX010: Change rate

HX040: Household size

HX050: Equivalised household size

HX090: Equivalised disposable income

HX100: Equivalised disposable income quintile

PX010: Change rate
PX020: Age at the end of the income reference period (=RB081)
PX030: Household identification number
PX040: Selected respondent status

NOT DISSEMINATED VARIABLES

Nucleus variables included until 2020 SILC operation year and no longer belonging to SILC exercise as from 2021 will not be disseminated in UDB.

In addition, the following SILC current nucleus variables are not disseminated in UDB:

DB050: Primary strata
DB061: (not provided by all countries)
DB063: (not provided by all countries)
DB071: (not provided by all countries)
DB073: (not provided by all countries)
DB080: Household design weight
DB120: Contact at address
DB130: Household questionnaire result
DB135: Household interview acceptance

HB040: Day of household interview
HH070: Total housing cost
HH071: Mortgage principal repayment

PB040: Personal cross-sectional weight
PB060: Personal cross-sectional weight for selected respondent

PB070: Personal design weight for selected respondent
PB090: Day of the personal interview

PB260: Nature of participation in the survey
PB265: Personal ID of person who filled in the questionnaire
PE010: Current education activity
PE021: ISCED level currently attended
PH040: Unmet need for medical examination or treatment
PH050: Main reason for unmet need for medical examination or treatment
PH060: Unmet need for dental examination or treatment
PH070: Main reason for unmet need for dental examination or treatment
PL016: Whether person has ever worked
PL035: Worked at least one hour during the previous week
PL073: Number of months spent at full-time work as employee
PL074: Number of months spent at part-time work as employee
PL075: Number of months spent at full-time work as self-employed (including family worker)
PL076: Number of months spent at part-time work as self-employed (including family worker)
PL080: Number of months spent in unemployment
PL085: Number of months spent in retirement or early retirement
PL086: Number of months spent as disabled or/and unfit to work

PL087: Number of months spent studying
PL088: Number of months spent in compulsory military service
PL089: Number of months spent fulfilling domestic tasks and care responsibilities
PL090: Number of months spent in other inactivity
PL100: Total number of hours usually worked in second, third, ... jobs
PL111A, PL111B: NACE Rev.2
PL120: Reason for working less than 30 hours
PL150: Managerial position
PY200g: Gross monthly earnings for employees

RB050: Personal cross-sectional weight
RB083: Passing of birthday at time of interview
RL010: Education at pre-school
RL020: Education at compulsory school
RL030: Childcare at centre-based services
RL040: Childcare at day-care centre
RL050: Childcare by a professional child-minder at child's home or at child-minder's home
RL060: Childcare by grand-parents, other household members (outside parents), other relatives, friends or neighbours
RL070: Childrens' cross-sectional weight for childcare

TOP/BOTTOM CODING

RB080: Year of birth
 → Year of survey minus 81 and below.

RB081: Age in completed years
RB082: Age in completed years at the time of the interview
 → 80 and above.

RX010: Age at the time of interview
RX020: Age at the end of income reference period
 → 80 and above.

HH030: Number of rooms available to the household
 → 6 and above.

PB140: Year of birth
 → Year of survey minus 81 and below.

PE041: Highest ISCED level attained
 → 5 and above for year < 2014.
 → 500 and above for year >= 2014.

PX020: Age at the end of the income reference period
 → 80 and above.

GROUPING / RECODING / PROCESSING

DB040: NUTS

→ NUTS 1 level only.

RB280: Country of birth

→ Recoded "LOC", "EU" "OTH".

RB290: Citizenship 1

→ Recoded "LOC", "EU" "OTH".

RB285: Duration of stay in the country of residence in completed years

→ Grouped in 5-year classes (as done for the cross-sectional data)

HB050: Month of household interview

→ Grouped into quarters.

HH010: Dwelling type

→ 5 recoded as missing.

PB230: Country of birth of father

→ Recoded "LOC", "EU" "OTH".

PB240: Country of birth of mother

→ Recoded "LOC", "EU" "OTH".

PB100: Month of the personal interview

→ Grouped into quarters.

PERTURBATION / PROCESSING

DB060: PSU-1 (first stage)

→ Randomised.

DB062: PSU-2 (second stage)

→ Randomised.

2. COUNTRY SPECIFIC RULES

CH

DB040: Region

→ NUTS2.

DB050: Primary strata variable added.

CZ

No randomisation of Household and Personal ID

No randomisation of PSU1 and PSU2.

DB040: Region
→ NUTS2.

DE

Comment: The longitudinal data is built up step-by-step from EU-SILC 2021 onwards. The first 4-years-longitudinal data for the period of 2020-2023 will be provided with the release of the German SILC 2023 data (See also Commission Implementing Decision (EU) 2020/2050 of 10 December 2020 in regard of granting derogations.)

Subsample of 90%

HX040, HB120: Household size
→ All records (at household and individual level) of Households with size 7 or over suppressed.

DB100: Degree of urbanization
→ Merging “1” and “2” into “1”

RG_Z#: Household Grid
→ Not provided.

RB090: Sex

PB150: Sex

- Recoded sex for one partner when a couple is in a same sex relationship:
- the sex of the younger partner should be female and that of the older male;
 - if a new same-sex partner moves into the household, only the sex of the new partner is adjusted.

HY040G/HY040N: Income from rental of a property or land

HY090G/HY090N: Interest, dividends, profit from capital investments in unincorporated business

HY140G/HY140N: Tax on income and social contributions

→ Top coding and replacement by mean of 5 highest values for each year separately:

- select the 5 highest values for each of the variables;
- replace them with the weighted mean of those 5 values.

HY140G/HY140N: Tax on income and social contributions

→ Bottom coding and replacement by mean of 3 lowest values for each year separately:

- select the 3 lowest negative values (adjust the number if there are less than 3 such records);
- replace them with the weighted mean of those 3 values.

PY010G/PY010N: Employee cash or near cash income

PY050G/PY050N: Cash benefits or losses from self-employment

PY080G/PY080N: Pension from individual private plans

PY090G/PY090N: Unemployment benefits

PY100G/PY100N: Old-age benefits

→ Top coding and replacement by mean of 5 highest values for each year separately:

- calculate the sum of income variable over all household members;
- select the 5 highest values of the sum;
- replace them with the weighted mean of those 5 summed up values;
- divide the mean between all household members according to their previous share of the sum.

PY050G/PY050N: Cash benefits or losses from self-employment

→ Bottom coding and replacement by mean of 3 lowest values for each year separately:

- calculate the sum of this variable over all household members;
- select the 3 lowest negative values (adjust the number if there are less than 3 such records);
- replace them with the weighted mean of those 3 summed up values;
- divide the mean between all household members according to their previous share of the sum.

PY091G: Unemployment benefits (C & MT)

PY092G: Unemployment benefits (C & NMT)

PY093G: Unemployment benefits (NC & MT)

PY094G: Unemployment benefits (NC & NMT)

PY101G: Old-age benefits (C & MT)

PY102G: Old-age benefits (C & NMT)

PY103G: Old-age benefits (NC & MT)

PY104G: Old-age benefits (NC & NMT)

→ Adjust to top-coded variables *PY090G* and *PY100G* according to their share of the original variables.

HY010: Total household gross income

HY020: Total disposable household income

HY022: Total disposable household income before social transfers other than old-age and survivor's benefits

HY023: Total disposable household income before social transfers including old-age and survivor's benefits

→ Adjust for the difference between the original and the top-coded variables *HY040G*, *HY090G*, *HY140G*, *PY010G*, *PY050G*, *PY080G*, *PY090G* and *PY100G*.

→ If the sign of *HY020* changes due to anonymization of its components, further adjust *HY140G* for the difference of the anonymized and original values of the income components so that *HY020* keeps its original value.

RB110: Membership status

→ Recoding 6 “Died” to 5 “Moved out since prev. wave”

In that case: **RB120** recoding to 4 (Lost)

RB120_F recoding to 1 (Filled)

EE

DB100: Degree of urbanisation

→ Merging "2" and "1" into "1".

HY010: Total household gross income

HY020: Total disposable household income

HY022: Total disposable household income before social transfers other than old-age and survivor's benefits

HY023: Total disposable household income before social transfers including old-age and survivor's benefits

HY090G: Net interest, dividends, profit from capital investment in unincorporated business

HY120G: Regular taxes on wealth

HY140G: Tax on income and social insurance contribution

→ Perturbation of 3 highest **HY010** incomes:

- selection of the 3 highest **HY010**;
- replacement of recorded value by their weighted mean for **HY010**, **HY020**, **HY022**, **HY023**, **HY090G**, **HY120G** and **HY140G**;
- proportional adjustment of the related income sub-components.

ES

DB040: Region

→ NUTS2.

FI

DB040: Region

→ NUTS2 with FI20 included in FI1B.

RB080: Year of birth

RX010: Age at the time of interview

RX020: Age at the end of income reference period

PB140: Year of birth

PX020: Age at the end of income reference period

→ Random perturbation of **RB080** inside appropriate year age classes (not exceeding 5 years) and appropriate modification of related age variables on selected households for all waves.

FR

CAUTION: The redesign of the survey in 2020 transformed the 9-year panel into a 4-year panel. The evolution of panel led to a reduction of the longitudinal sample size during the transition period between 2020 and 2022: longitudinal indicators, in particular those broken down by population categories should thus be considered as unreliable for SILC 2020 to SILC 2022.

DB040: Region
→ NUTS2

PY010G/N, PY050G/N, PY080G/N, PY090-1-2-3-4G/N, PY100-1-2-3-4G/N, PY110-1-2-3-4G/N, PY130-1-2-3-4G/N, HY020, HY022, HY023, HY040G/N, HY080G/N, HY081G/N, HY090G/N, HY130G/N, HY131G/N, HY145N
→ Rounded to the next 10 €.

IE

PE041: Highest ISCED Level Attained - Group by 1 digit ISCED levels:
→ ISCED 0 No formal education or below ISCED 1
→ ISCED 1 Primary education
→ ISCED 2 Lower secondary education
→ ISCED 3 Upper secondary education
→ ISCED 4 Post-secondary non-tertiary education
→ ISCED 5 Short-cycle tertiary education
→ ISCED 6 Bachelor's or equivalent level
→ ISCED 7 Master's or equivalent level
→ ISCED 8 Doctoral or equivalent level

PL200: number of years spent in paid work – top coding
→ > 55 = 55.

PY010G/N, PY050G/N, PY080G/N, PY090-1-2-3-4G/N, PY100-1-2-3-4G/N, PY110-1-2-3-4G/N, PY130-1-2-3-4G/N, HY020, HY022, HY023, HY040G/N, HY080G/N, HY081G/N, HY090G/N, HY130G/N, HY131G/N, HY145N
→ Rounded to the next 10 €.

IS

HY010: Total household gross income
HY020: Total disposable household income
HY022: Total disposable household income before social transfers other than old-age and survivor's benefits
HY023: Total disposable household income before social transfers including old-age and survivor's benefits
HY090G: Net interest, dividends, profit from capital investment in unincorporated business
HY120G: Regular taxes on wealth
HY140G: Tax on income and social insurance contribution
→ Perturbation of 3 highest **HY010** incomes for each wave:
• selection of the 3 highest **HY010**;
• replacement of recorded value by their weighted mean for **HY010, HY020, HY022, HY023, HY090G, HY120G** and **HY140G**;
• proportional adjustment of the related income sub-components.

RB080: Year of birth

RX010: Age at the time of interview

RX020: Age at the end of income reference period

PB140: Year of birth

PX020: Age at the end of income reference period

→ Random perturbation of ***RB080*** inside appropriate year age classes (not exceeding 5 years) and appropriate modification of related age variables for 4 household with highest ***HY010*** in each year, and appropriate modification for all waves.

IT

PE041: Highest ISCED level attained

→ 300, 340, 342, 343, 344, 349, 350, 352, 353, 354, 359, 390, 392, 393, 394, 399 grouped into 300.

→ 400, 440, 450, 490 grouped into 400.

→ 500, 540, 550, 590 grouped into 500.

RG_Z#: Grid → removed

RB032: Sequential number of the persons in the household → removed

HB110: Household type → removed

RB081: Age in completed years → removed

RB082: Age in completed years at the time of the interview → removed

RB280: Country of birth → removed

RB290: Citizenship 1 → removed

RB285: Duration of stay in the country of residence in completed years → removed

PB230: Country of birth of father → removed

PB240: Country of birth of mother → removed

LV

DB100: Degree of urbanisation

→ Merging "2" and "1" into "1".

MT

DB100: Degree of urbanisation

→ Merging "2" and "3" into "2".

HH030: Number of rooms available to the household

→ Top-coded at 6 as "6 or more"

→ Bottom-coded at 2 as "2 or less".

HX040, HB120: Household size

→ Top-coded to "6".

PB190: Marital status

→ Recoded 3 and 5 into 3.

PL051A: Occupation in main job

PL051B: Occupation (last job)

→ Grouped according to:

- 11 – 14 = "1" – Legislators, senior officials and managers
- 21 – 26 = "2" – Professionals
- 31 – 35 = "3" – Technicians and associate professionals
- 41 – 44 = "4" – Clerks
- 51 – 54 = "5" – Service workers and shop and market sales workers
- 61 – 63 = "6" – Skilled agricultural and fishery workers
- 71 – 75 = "7" – Craft and related trades workers
- 81 – 83 = "8" – Plant and machine operators and assemblers
- 91 – 96 = "9" – Elementary occupations
- 01 = "10" – Armed forces

RB080, PB140

→ Grouped into 5-year groups as follows:

- 1941 or before = "1" - 1941 or before
- 1942-1946 = "2" - 1942-1946
- 1947-1951 = "3" - 1947-1951
- 1952-1956 = "4" - 1952-1956
- 1957-1961 = "5" - 1957-1961
- 1962-1966 = "6" - 1962-1966
- 1967-1971 = "7" - 1967-1971
- 1972-1976 = "8" - 1972-1976
- 1977-1981 = "9" - 1977-1981
- 1982-1986 = "10" - 1982-1986
- 1987-1991 = "11" - 1987-1991
- 1992-1996 = "12" - 1992-1996
- 1997-2001 = "13" - 1997-2001
- 2002-2006 = "14" - 2002-2006
- 2007-2011 = "15" - 2007-2011
- 2012-2016 = "16" - 2012-2016
- 2017-2021 = "17" - 2017-2021

RX010, RX020:

→ Not provided

PE041: Highest ISCED level attained

→ 5 and above for year < 2014.

→ 500 and above for year >= 2014.

→ 300, 340, 342, 343, 344, 350, 352, 353 and 354 grouped into one category.

→ 400, 440 and 450 grouped into one category.

PL032: Self-defined current economic status

→ 7 and above, top-coded to "7".

PL211A-PL211L: Main activity

→ Merging "9" and "11" into "11".

PX020: Age at the end of the income reference period

→ Variable to be removed.

PB230: Country of birth of father

→ Recoded "LOC", "OTH".

PB240: Country of birth of mother

→ Recoded "LOC", "OTH".

HH060; HH070; HH071; HX090; HY010; HY020; HY022; HY023; HY040G; HY050G; HY052G; HY053G; HY054G; HY060G; HY063G; HY070G; HY073G; HY080G; HY081G; HY090G; HY100G; HY110G; HY130G; HY131G; HY140G; HY155_1; HY155_2; HY155_3; HY155_4; PL060; PY010G; PY020G; PY021G; PY035G; PY050G; PY080G; PY090G; PY100G; PY110G; PY120G; PY130G; PY140G

As 'continuous/quantitative variables';

→ Detection and elimination of outliers in a 'unique combination' of Sex, 5 year age group and degree of urbanisation.

If a 'continuous/quantitative variable' of a person in a 'unique combination' is an outlier then the 'continuous/quantitative variable' is bottom/top coded to the Lower / Upper risk threshold of the 'continuous/quantitative variable'.

Method of 'unique combination' (persons that are unique in their group):

- The 'unique combination' is checked in person data.
- The variables participating in the construction of the groups of 'unique combination':
 1. Sex (RB090)
 2. Age at the end of income reference period (PX020)
 3. Degree of urbanisation (DB100)

Outliers of the 'continuous/quantitative variables' of the persons in the 'unique combinations' are detected. If there is no 'unique combination' then there is no need to check and detect outliers.

Method of detection of outliers for each 'continuous/quantitative variables':

An outlier is a 'continuous/quantitative variable' outside the interval below.

Lower Risk Threshold < 'pro capite' value < Upper Risk Threshold

Whereby the
'pro capite' value is

- The actual value of the numeric variable divided by the total number of members in the household in case of household variables.
- The actual value (i.e. no division is done) of the variable related to individuals.

The thresholds are calculated using the whole population.

Lower Risk Threshold= $Q1 - 3 * IQR$

Upper Risk Threshold= $Q3 + 3 * IQR$

$Q1$ = Quartile 1 (i.e. the 25th percentile)

$Q3$ = Quartile 3 (i.e. the 75th percentile)

$IQR = Q3 - Q1$

The '*continuous/quantitative variable*' outliers are bottom/top coded.

Method of the top/bottom coding

- In case of household variables the Lower/Upper Risk Threshold is multiplied by the members in the household.
- In case of individuals (person-related variables) the Lower/Upper Risk Threshold (i.e. no multiplication is done) substitutes the actual value.

NL

DB040: Region

DB100: Degree of urbanisation

PL

PE041: Highest ISCED level attained

→ Not top-coded.

PT

DB040: Region

→ NUTS2.

RB080: Year of birth

→ Bottom coding: year of survey minus 80 and below.

PB140: Year of birth

→ Bottom coding: year of survey minus 80 and below.

PL200: number of years spent in paid work

→ Top coding 65 and above.

PL051A: Occupation in main job

PL051B: Occupation (last job)

- if **PL051** in (11,12,13,14) → Grouping 14;

SI

For each wave:

DB100: Degree of urbanisation

RB285: Duration of stay in the country of residence in completed years

→ Not provided.

RB280: Country of birth

RB290: Citizenship 1

PB230: Country of birth of father

PB240: Country of birth of mother

→ Recoded "*LOC*" and "*OTH*" (including "*EU*").

PE041: Highest ISCED level attained

→ Bottom coding: grouping 0, 1, 2 into 2 for year < 2014.

→ Bottom coding: grouping 000, 100, 200 into 200 for year ≥ 2014.

PL051A: Occupation in main job

PL051B: Occupation (last job)

→ Grouping according to the first digit.

HY040G/HY040N: Income from rental of a property or land

HY050G/HY050N: Family/Children-related allowances

HY060G/HY060N: Social exclusion not elsewhere classified

HY070G/HY070N: Housing allowances

HY090G/HY090N: Interest, dividends, profit from capital investments in unincorporated business

HY110G/HY110N: Income received by people aged under 16

HY120G/HY120N: Regular taxes on wealth

PY035G/PY035N: Contributions to individual private pension plans

PY080G/PY080N: Pension from individual private plans

HY081G/HY081N: Alimonies received (compulsory + voluntary)

HY131G/HY131N: Alimonies paid (compulsory + voluntary)

PY021G/PY021N: Company car

HY121G/HY121N: Taxes paid on ownership of household main dwelling

→ Top coding »10-20« (version 1), *i.e.*:

- selection of the 10 IDs with the highest original value of the gross variable;
- selection of the 10 IDs with the highest original value of the net variable;
- union of selected IDs (contains at least 10 and not more than 20 IDs);

for the IDs from the union:

- replacement of original values with weighted average for the gross variable;
- replacement of original values with weighted average for the net variable.

→ Rounded to the nearest 10 €.

HY080G/HY080N: Regular inter-household cash transfer received (related variables are **HY081G/HY081N:** Alimonies received (compulsory + voluntary))

HY130G/HY130N: Regular inter-household cash transfer paid (related variables are

HY131G/HY131N: Alimonies paid (compulsory + voluntary))

PY020G/PY020N: Non-Cash employee income (related variables are **PY021G/PY021N:** Company car)

→ Top coding »10-40«, *i.e.*:

- selection of the 10 IDs with the highest original value of the gross variable;
- selection of the 10 IDs with the highest original value of the net variable;
- among the 10 IDs with the highest original value of the related gross variable, selection of IDs for which the original value of the gross variable is greater or equal than the original value of the related gross variable;
- among the 10 IDs with the highest original value of the related net variable, selection of IDs for which the original value of the net variable is greater or equal than the original value of the related net variable;
- union of selected IDs (contains at least 10 and not more than 40 IDs);

for the IDs from the union:

- replacement of original values with weighted average for the gross variable;
- replacement of original values with weighted average for the net variable.

→ Rounded to the nearest 10 €.

PY030G: Employer's social insurance contribution (related variable is **PY031G:** Optional employer's social insurance contributions)

→ Top coding »10-20 (version 2)«, *i.e.*:

- selection of the 10 IDs with the highest original value of the variable;
- selection of the 10 IDs with the highest original value of the related variable;
- union of selected IDs (contains at least 10 and not more than 20 IDs);

for the IDs from the union:

- replacement of original values with weighted average for the variable.

→ Rounded to the nearest 10 €.

PY010G/PY010N: Employee cash or near cash income

PY050G/PY050N: Cash benefits or losses from self-employment

PY090G/PY090N: Unemployment benefits

PY100G/PY100N: Old-age benefits

PY110G/PY110N: Survivor' benefits

PY120G/PY120N: Sickness benefits

PY130G/PY130N: Disability benefits

PY140G/PY140N: Education-related allowances

→ Top coding »20-40«, *i.e.*:

- selection of the 20 IDs with the highest original value of the gross variable;
- selection of the 20 IDs with the highest original value of the net variable;
- union of selected IDs (contains at least 20 and not more than 40 IDs);

for the IDs from the union:

- replacement of original values with weighted average for the gross variable;
- replacement of original values with weighted average for the net variable.

→ Rounded to the nearest 10 €.

HY145N: Repayments/receipts for tax adjustment

→ Top coding: for the highest 10 original values, replacement of the original values with their weighted average.

→ Bottom coding: for the lowest 10 original values, replacement of the original values with their weighted average.

→ Rounded to the nearest 10 €.

HY010: Total household gross income
HY020: Total disposable household income
HY022: Total disposable household income before social transfers other than old-age and survivor's benefits
HY023: Total disposable household income before social transfers including old-age and survivor's benefits
HY140G/HY140N: Tax on income and social contributions – calculated as $HY140G = (HY040G - HY040N) + (HY090G - HY090N) + (HY050G - HY050N) + (HY060G - HY060N) + (HY070G - HY070N) + (HY110G - HY110N) + [for\ all\ household\ members] (PY010G - PY010N) + (PY021G - PY021N) + (PY050G - PY050N) + (PY080G - PY080N) + (PY090G - PY090N) + (PY100G - PY100N) + (PY110G - PY110N) + (PY120G - PY120N) + (PY130G - PY130N) + (PY140G - PY140N) + HY145N$
HY140N: Tax on income and social contributions – calculated as $HY140N = HY140G$
HY073G: Housing allowances (NC & MT) – calculated as $HY073G = HY070G$
PY122G: Sickness benefits (C & NMT) – calculated as $PY122G = PY120G$
HX090: Equivalised disposable income
→ Computed from other (already protected) variables.

HY052G: Family/Children-related allowances (C & NMT) (related variable is HY050G)
HY053G: Family/Children-related allowances (NC & MT) (related variable is HY050G)
HY054G: Family/Children-related allowances (NC & NMT) (related variable is HY050G)
HY063G: Social exclusion not elsewhere classified (NC & MT) (related variable is HY060G)
HY064G: Social exclusion not elsewhere classified (NC & NMT) (related variable is HY060G)
PY092G: Unemployment benefits (C & NMT) (related variable is PY090G)
PY094G: Unemployment benefits (NC & NMT) (related variable is PY090G)
PY102G: Old-age benefits (C & NMT) (related variable is PY100G)
PY103G: Old-age benefits (NC & MT) (related variable is PY100G)
PY104G: Old-age benefits (NC & NMT) (related variable is PY100G)
PY112G: Survivor' benefits (C & NMT) (related variable is PY110G)
PY113G: Survivor' benefits (NC & MT) (related variable is PY110G)
PY114G: Survivor' benefits (NC & NMT) (related variable is PY110G)
PY132G: Disability benefits (C & NMT) (related variable is PY130G)
PY133G: Disability benefits (NC & MT) (related variable is PY130G)
PY134G: Disability benefits (NC & NMT) (related variable is PY130G)
PY143G: Education-related allowances (NC & MT) (related variable is PY140G)
PY144G: Education-related allowances (NC & NMT) (related variable is PY140G)
→ Calculate the share of the variable's value in the non-protected related variable's value. Replace the variable's value so it will have the same share in the protected related variable's value.

RB090: Sex

PB150: Sex

- Recoded sex for one partner when a couple is in a same sex relationship:
- the sex of the younger partner should be female and that of the older male;
 - if a new same-sex partner moves into the household, only the sex of the new partner is adjusted.

RB081: Age in completed years (at the end of income reference period)

RB082: Age in completed years at the time of the interview

→ 80 and above.

PL141: Permanency of main job

→ Aggregation to the following categories:

11 ← 11, 12

21 ← 21, 22

PL271: Duration of the most recent unemployment spell

→ Aggregation to the following categories:

31 ← 25-36

48 ← 37-59

Other original values are not changed

UK

All records (at household and individual level) pertaining to households of size 10 and over are suppressed.

HY010: Total household gross income

HY020: Total disposable household income

HY022: Total disposable household income before social transfers other than old-age and survivor's benefits

HY023: Total disposable household income before social transfers including old-age and survivor's benefits

HY090G: Net interest, dividends, profit from capital investment in unincorporated business

HY120G: Regular taxes on wealth

HY140G: Tax on income and social insurance contribution

→ Perturbation of 3 highest **HY010** incomes for each wave:

- selection of the highest **HY010**;
- replacement of recorded value by their weighted mean for **HY010**, **HY020**, **HY022**, **HY023**, **HY090G**, **HY120G** and **HY140G**;
- proportional adjustment of the related income sub-components.

All **HY** and **PY** variables (including disaggregated variables), as well as **HH060**, **HH061**, **HH070**, **HH071** and **HS130** are rounded to the nearest 50 €.

3. ADDITIONAL VARIABLES

RX010: Age at the time of interview

A household member coded "80" is 80 years old or over

RX010 is calculated by subtracting date of birth (in year and month) from date of interview (in year and month). ***RX010*** may vary from one digit compared to real age at the exact day of interview, as the day of birth is not known.

RX020: Age at the end of income reference period

A household member coded "80" is 80 or over

A household member coded "-1" is born between the end of income reference period and the data collection

HX010: Change rate

Conversion factor: euro / national currency

It is the average exchange rate based on the year prior to the survey

The value is missing when the national currency is the Euro

Income data (euro) i. e. $HY020 * HX010$ = income data (national currency)

Should you wish to compute the amount in ppp (purchasing power parities), apply:

- For countries members of the euro area: $HY020/ppp$
- For countries not members of the euro area: $HY020*HX010/ppp$

The ppp values of each country can be found in the XL-file included in the UDB documentation on CIRCABC.

HX040: Household size

Number of current household members

In practise; number of person pertaining to the same household having an observation in the R-file (personal register file)

HX050: Equivalised household size

Calculation of equivalised household size

Let us consider:

- $HM14+$: number of household members aged 14 and over (at the end of income reference period)
- $HM13-$: number of household members aged 13 or less(at the end of income reference period)

The equivalised household size is defined as:

$$HX050= 1+ 0.5 * (HM14+ -1) + 0.3 * HM13-$$

HX090: Equivalised disposable income

$$HX090= (HY020 / HX050)$$

HX100: Equivalised disposable income quintiles

Values: 1 - 5

1: household pertains to the lower (1st) quintile

2: household pertains to the 2nd quintile

3: household pertains to the 3rd quintile

4: household pertains to the 4th quintile

5: household pertains to the upper (5th) quintile

PX010: Change rate

Conversion factor: euro / national currency

It is the average exchange rate based on the year prior to the survey

The value is missing when the national currency is the Euro

Income data (euros) * *PX010* = income data (national currency)

PX020: Age at the end of the income reference period

A household member coded "80" has 80 or over

A household member coded "-1" is born between the end of income reference period and the data collection

PX030: Household identification number

PX030 = *DB030*

PX040: Selected respondent status

PX040 = *RB245*

Income flags

1) *HY040N*, *HY050N*, *HY060N*, *HY070N*, *HY080N*, *HY081N*, *HY090N*, *HY110N*, *HY130N*, *HY131N*, *HY170N*, *PY010N*, *PY020N*, *PY021N*, *PY050N*, *PY070N*, *PY080N*, *PY090N*, *PY100N*, *PY110N*, *PY120N*, *PY130N*, *PY140N*:

- *VAR_F* contains 2 digits: 1st digit=collected net or gross + 2nd digit=type of net recorded value
- *VAR_I* contains: first digit=imputation method + from the 2nd digit=imputation factor

2) *HY100N*, *HY120N*, *HY140N*, *HY145N*, *HY040G*, *HY050G*, *HY060G*, *HY070G*, *HY080G*, *HY081G*, *HY090G*, *HY100G*, *HY110G*, *HY120G*, *HY130G*, *HY140G*, *HY170G*, *HY010*, *HY020*, *HY022*, *HY023*, *PY035N*, *PY010G*, *PY020G*, *PY021G*, *PY030G*, *PY035G*, *PY050G*, *PY070G*, *PY080G*, *PY090G*, *PY100G*, *PY110G*, *PY120G*, *PY130G*, *PY140G*:

- *VAR_F* contains only collected net or gross.

- VAR_I contains: 1st digit=imputation method + from the 2nd digit=imputation factor. If $VAR_F = "-"$ or $"0"$ then $VAR_I =$.

Definition in Doc65:

Imputation factor = (collected value / recorded value) * 100

Example:

Collected value = 912

Recorded value = 1000

Imputation factor to be recorded: 091

4. VARIABLE CONTENT

D-file variables

Position	Variable
1	DB010
2	DB020
3	DB030
4	DB040
6	DB050
8	DB060
10	DB062
12	DB070
14	DB075
16	DB076
18	DB095
20	DB100
22	DB110
5	DB040_F
7	DB050_F
9	DB060_F
11	DB062_F
13	DB070_F
15	DB075_F
17	DB076_F
19	DB095_F
21	DB100_F
23	DB110_F

H-file variables

Position	Variable
1	HB010
2	HB020
3	HB030
4	HB050
6	HB060
8	HB070
10	HB100
12	HB110
14	HB120
16	HB130
5	HB050_F
7	HB060_F
9	HB070_F
11	HB100_F
13	HB110_F
15	HB120_F

Position	Variable
17	HB130_F
193	HD080
194	HD080_F
183	HH010
185	HH021
187	HH030
189	HH050
191	HH060
184	HH010_F
186	HH021_F
188	HH030_F
190	HH050_F
192	HH060_F
195	HI010
197	HI020
199	HI030
201	HI040
196	HI010_F
198	HI020_F
200	HI030_F
202	HI040_F
159	HS011
161	HS021
163	HS022
165	HS031
167	HS040
169	HS050
171	HS060
173	HS090
175	HS100
177	HS110
179	HS120
181	HS150
160	HS011_F
162	HS021_F
164	HS022_F
166	HS031_F
168	HS040_F
170	HS050_F
172	HS060_F
174	HS090_F
176	HS100_F
178	HS110_F
180	HS120_F
182	HS150_F
203	HX010
204	HX040
205	HX050
206	HX090

Position	Variable
207	HX100
18	HY010
21	HY020
24	HY022
27	HY023
19	HY010_F
20	HY010_IF
22	HY020_F
23	HY020_IF
25	HY022_F
26	HY022_IF
28	HY023_F
29	HY023_IF
78	HY040G
79	HY040G_F
80	HY040G_IF
30	HY040N
31	HY040N_F
32	HY040N_IF
81	HY050G
82	HY050G_F
83	HY050G_IF
33	HY050N
34	HY050N_F
35	HY050N_IF
123	HY051G
124	HY051G_F
125	HY051G_IF
126	HY052G
127	HY052G_F
128	HY052G_IF
129	HY053G
130	HY053G_F
131	HY053G_IF
132	HY054G
133	HY054G_F
134	HY054G_IF
84	HY060G
85	HY060G_F
86	HY060G_IF
36	HY060N
37	HY060N_F
38	HY060N_IF
135	HY061G
136	HY061G_F
137	HY061G_IF
138	HY062G
139	HY062G_F
140	HY062G_IF

Position	Variable
141	HY063G
142	HY063G_F
143	HY063G_IF
144	HY064G
145	HY064G_F
146	HY064G_IF
87	HY070G
88	HY070G_F
89	HY070G_IF
39	HY070N
40	HY070N_F
41	HY070N_IF
147	HY071G
148	HY071G_F
149	HY071G_IF
150	HY072G
151	HY072G_F
152	HY072G_IF
153	HY073G
154	HY073G_F
155	HY073G_IF
156	HY074G
157	HY074G_F
158	HY074G_IF
90	HY080G
91	HY080G_F
92	HY080G_IF
42	HY080N
43	HY080N_F
44	HY080N_IF
93	HY081G
94	HY081G_F
95	HY081G_IF
45	HY081N
46	HY081N_F
47	HY081N_IF
96	HY090G
97	HY090G_F
98	HY090G_IF
48	HY090N
49	HY090N_F
50	HY090N_IF
99	HY100G
100	HY100G_F
101	HY100G_IF
51	HY100N
52	HY100N_F
53	HY100N_IF
102	HY110G

Position	Variable
103	HY110G_F
104	HY110G_IF
54	HY110N
55	HY110N_F
56	HY110N_IF
105	HY120G
106	HY120G_F
107	HY120G_IF
57	HY120N
58	HY120N_F
59	HY120N_IF
108	HY121G
109	HY121G_F
110	HY121G_IF
60	HY121N
61	HY121N_F
62	HY121N_IF
111	HY130G
112	HY130G_F
113	HY130G_IF
63	HY130N
64	HY130N_F
65	HY130N_IF
114	HY131G
115	HY131G_F
116	HY131G_IF
66	HY131N
67	HY131N_F
68	HY131N_IF
117	HY140G
118	HY140G_F
119	HY140G_IF
69	HY140N
70	HY140N_F
71	HY140N_IF
72	HY145N
73	HY145N_F
74	HY145N_IF
120	HY170G
121	HY170G_F
122	HY170G_IF
75	HY170N
76	HY170N_F
77	HY170N_IF

R-file variables

Position	Variable
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Position	Variable
1	RB010
2	RB020
3	RB030
4	RB032
6	RB040
7	RB060
9	RB062
11	RB063
13	RB064
15	RB065
17	RB066
19	RB080
21	RB081
23	RB082
25	RB090
27	RB100
29	RB110
31	RB120
33	RB200
35	RB211
37	RB220
39	RB230
41	RB240
43	RB245
45	RB250
47	RB280
49	RB285
51	RB290
5	RB032_F
8	RB060_F
10	RB062_F
12	RB063_F
14	RB064_F
16	RB065_F
18	RB066_F
20	RB080_F
22	RB081_F
24	RB082_F
26	RB090_F
28	RB100_F
30	RB110_F
32	RB120_F
34	RB200_F
36	RB211_F
38	RB220_F
40	RB230_F
42	RB240_F
44	RB245_F
46	RB250_F

Position	Variable
48	RB280_F
50	RB285_F
52	RB290_F
53	RG_1
55	RG_2
57	RG_3
59	RG_4
61	RG_5
63	RG_6
65	RG_7
67	RG_8
69	RG_9
71	RG_10
73	RG_11
75	RG_12
77	RG_13
79	RG_14
81	RG_15
83	RG_16
85	RG_17
87	RG_18
89	RG_19
91	RG_20
93	RG_21
95	RG_22
72	RG_10_F
74	RG_11_F
76	RG_12_F
78	RG_13_F
80	RG_14_F
82	RG_15_F
84	RG_16_F
86	RG_17_F
88	RG_18_F
90	RG_19_F
54	RG_1_F
92	RG_20_F
94	RG_21_F
96	RG_22_F
56	RG_2_F
58	RG_3_F
60	RG_4_F
62	RG_5_F
64	RG_6_F
66	RG_7_F
68	RG_8_F
70	RG_9_F
97	RX010
98	RX020

P-file variables

Position	Variable
1	PB010
2	PB020
3	PB030
4	PB050
6	PB080
8	PB100
10	PB110
12	PB120
14	PB140
16	PB150
18	PB160
20	PB170
22	PB180
24	PB190
26	PB200
28	PB205
30	PB230
32	PB240
34	PB270
5	PB050_F
7	PB080_F
9	PB100_F
11	PB110_F
13	PB120_F
15	PB140_F
17	PB150_F
19	PB160_F
21	PB170_F
23	PB180_F
25	PB190_F
27	PB200_F
29	PB205_F
31	PB230_F
33	PB240_F
35	PB270_F
235	PD020
237	PD030
239	PD050
241	PD060
243	PD070
245	PD080
236	PD020_F
238	PD030_F
240	PD050_F

Position	Variable
242	PD060_F
244	PD070_F
246	PD080_F
36	PE041
37	PE041_F
82	PH010
84	PH020
86	PH030
83	PH010_F
85	PH020_F
87	PH030_F
38	PL032
48	PL060
50	PL141
52	PL145
54	PL200
80	PL271
39	PL032_F
40	PL040A
41	PL040A_F
42	PL040B
43	PL040B_F
44	PL051A
45	PL051A_F
46	PL051B
47	PL051B_F
49	PL060_F
51	PL141_F
53	PL145_F
55	PL200_F
56	PL211A
57	PL211A_F
58	PL211B
59	PL211B_F
60	PL211C
61	PL211C_F
62	PL211D
63	PL211D_F
64	PL211E
65	PL211E_F
66	PL211F
67	PL211F_F
68	PL211G
69	PL211G_F
70	PL211H
71	PL211H_F
72	PL211I
73	PL211I_F
74	PL211J

Position	Variable
75	PL211J_F
76	PL211K
77	PL211K_F
78	PL211L
79	PL211L_F
81	PL271_F
247	PW010
248	PW191
249	PX010
250	PX020
251	PX030
252	PX040
124	PY010G
125	PY010G_F
126	PY010G_IF
88	PY010N
89	PY010N_F
90	PY010N_IF
127	PY020G
128	PY020G_F
129	PY020G_IF
91	PY020N
92	PY020N_F
93	PY020N_IF
130	PY021G
131	PY021G_F
132	PY021G_IF
94	PY021N
95	PY021N_F
96	PY021N_IF
133	PY030G
134	PY030G_F
135	PY030G_IF
136	PY035G
137	PY035G_F
138	PY035G_IF
97	PY035N
98	PY035N_F
99	PY035N_IF
139	PY050G
140	PY050G_F
141	PY050G_IF
100	PY050N
101	PY050N_F
102	PY050N_IF
142	PY080G
143	PY080G_F
144	PY080G_IF
103	PY080N

Position	Variable
104	PY080N_F
105	PY080N_IF
145	PY090G
146	PY090G_F
147	PY090G_IF
106	PY090N
107	PY090N_F
108	PY090N_IF
163	PY091G
164	PY091G_F
165	PY091G_IF
166	PY092G
167	PY092G_F
168	PY092G_IF
169	PY093G
170	PY093G_F
171	PY093G_IF
172	PY094G
173	PY094G_F
174	PY094G_IF
148	PY100G
149	PY100G_F
150	PY100G_IF
109	PY100N
110	PY100N_F
111	PY100N_IF
175	PY101G
176	PY101G_F
177	PY101G_IF
178	PY102G
179	PY102G_F
180	PY102G_IF
181	PY103G
182	PY103G_F
183	PY103G_IF
184	PY104G
185	PY104G_F
186	PY104G_IF
151	PY110G
152	PY110G_F
153	PY110G_IF
112	PY110N
113	PY110N_F
114	PY110N_IF
187	PY111G
188	PY111G_F
189	PY111G_IF
190	PY112G
191	PY112G_F

Position	Variable
192	PY112G_IF
193	PY113G
194	PY113G_F
195	PY113G_IF
196	PY114G
197	PY114G_F
198	PY114G_IF
154	PY120G
155	PY120G_F
156	PY120G_IF
115	PY120N
116	PY120N_F
117	PY120N_IF
199	PY121G
200	PY121G_F
201	PY121G_IF
202	PY122G
203	PY122G_F
204	PY122G_IF
205	PY123G
206	PY123G_F
207	PY123G_IF
208	PY124G
209	PY124G_F
210	PY124G_IF
157	PY130G
158	PY130G_F
159	PY130G_IF
118	PY130N
119	PY130N_F
120	PY130N_IF
211	PY131G
212	PY131G_F
213	PY131G_IF
214	PY132G
215	PY132G_F
216	PY132G_IF
217	PY133G
218	PY133G_F
219	PY133G_IF
220	PY134G
221	PY134G_F
222	PY134G_IF
160	PY140G
161	PY140G_F
162	PY140G_IF
121	PY140N
122	PY140N_F
123	PY140N_IF

Position	Variable
223	PY141G
224	PY141G_F
225	PY141G_IF
226	PY142G
227	PY142G_F
228	PY142G_IF
229	PY143G
230	PY143G_F
231	PY143G_IF
232	PY144G
233	PY144G_F
234	PY144G_IF