



## 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.

Please note that some variables are marked with the following colours:

	Valid until 2020 and removed
	Valid until 2020 - former labelling
	Valid as from 2021 - new labelling

### 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

## VARIABLES REMOVED

**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  
**HS160:** Problems with the dwelling: too dark, not enough light  
**HS170:** Noise from neighbours or from the street  
**HS180:** Pollution, grime or other environment problems  
**HS190:** Crime, violence or vandalism in the area

**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

**PB210:** Country of birth  
**PB220A:** Citizenship 1  
**PB220B (valid until 2020):** Citizenship 2  
**PB260:** Nature of participation in the survey  
**PB265:** Personal ID of person who filled in the questionnaire  
**PE010:** Current education activity  
**PE020 (valid until 2020) → PE021 (new 2021):** ISCED level currently attended  
**PE030:** Year when highest level of education was attained  
**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  
**PL015 (valid until 2020)** → **PL016 (new 2021)**: 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  
**PL111 (valid until 2020)** → **PL111A, PL111B (new 2021)**: NACE Rev.2  
**PL120:** Reason for working less than 30 hours  
**PL130:** Number of persons working at the local unit  
**PL150:** Managerial position  
**PY200g:** Gross monthly earnings for employees

**RB031 (valid until 2020)**: Year of immigration  
**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.

**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.

**PE040 (valid until 2020)** → **PE041 (new 2021)**: 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.

**RB070 (valid until 2020)**: Month of birth  
→ Grouped into quarters.

**RB140**: Month when the person moved out or died  
→ Grouped into quarters.

**RB180**: Month when the person moved in  
→ Grouped into quarters.

**RB280 (new 2021)**: Country of birth  
→ Recoded "LOC", "EU" "OTH".

**RB290 (new 2021)**: Citizenship 1  
→ Recoded "LOC", "EU" "OTH".

**HB050**: Month of household interview  
→ Grouped into quarters.

**HH010**: Dwelling type  
→ 5 recoded as missing.

**PB130 (valid until 2020)**: Month of birth  
→ Grouped into quarter.

**PB230 (new 2021)**: Country of birth of father  
→ Recoded "LOC", "EU" "OTH".

**PB240 (new 2021)**: 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

### BE

**RB140 (valid until 2020):** Month when the person moved out or died  
→ Not recoded in quarters.

**RB180 (valid until 2020):** Month when the person moved in  
→ Not recoded in quarters.

### 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

For Germany, SILC 2020 longitudinal data are not provided due to the new sample and the methodological break in comparison to 2019. The longitudinal data is built up step-by-step from 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.

### 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.

<b>ES</b>
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**DB040:** Region  
 → NUTS2.

<b>FI</b>
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**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.

<b>FR</b>
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**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

**RB070 (valid until 2020):** Month of birth  
→ Not provided.

**PB130 (valid until 2020):** Month of birth  
→ Not provided.

**PE040 (valid until 2020) → PE041 (new 2021): Highest ISCED Level Attained**  
→ Additional to top coding, group PE040:  
340 - 354 = 300 “Upper secondary education (not further specified)”  
440 - 450 = 400 “Post-secondary non-tertiary education (not further specified)”

**PL170 (valid until 2020):** Reason to change – Combine:  
→ 4 – Sale or closure of own/family business into  
7 – Other reasons

**PL180 (valid until 2020):** Most recent change in the individual's activity status –  
Recorded:  
→ 1 – 3 = 1 – Employed – other  
4 – 6 = 2 – Unemployed – other  
7 – 9 = 3 – Retired - other  
10 – 12 = 4 – Other inactive – other

**PL190 (valid until 2020):** When began first regular job – bottom and top-coding:  
→ < 13 = 13  
> 30 = 30

**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

**PE040 (valid until 2020)** → **PE041 (new 2021)**: Highest ISCED level attained

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

→ 40, 440, 450 grouped into 400.

## LV

**DB100**: Degree of urbanisation

→ Merging "2" and "1" into "1".

## MT

**DB100**: Degree of urbanisation

→ Merging "2" and "3" into "2".

**HX040**: Household size

→ Top-coded to "6".

**PB190**: Marital status

→ Recoded 3 and 5 into 3.

**PL051 (valid until 2020)**: Occupation (ISCO-08)

→ **PL051A (new 2021)** Occupation in main job

→ **PL051B (new 2021)** 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

**PL180 (valid until 2020)**: Most recent change in the individual's activity status –  
Recoded:

→ 1 – 3 = 1 – Employed – other

4 – 6 = 2 – Unemployed – other

7 – 9 = 3 – Retired - other

10 – 12 = 4 – Other inactive – other

**PB130 (valid until 2020)**: Month of birth

**RB070 (valid until 2020)**: Month of birth

→ Not provided.

**RB080, PB140**

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

→ 5-year groups as follows:

<=1940 = 1940

1941 - 1945 = 1945

1946 - 1950 = 1950

1951 - 1955 = 1955

1956 - 1960 = 1960

1961 - 1965 = 1965

1966 - 1970 = 1970

1971 - 1975 = 1975

1976 - 1980 = 1980

1981 - 1985 = 1985

1986 - 1990 = 1990

1991 - 1995 = 1995

1996 - 2000 = 2000

2001 - 2005 = 2005

2006 - 2010 = 2010

2011 - 2015 = 2015

2016 - 2020 = 2020

**RX010, RX020**:

→ Not provided

**PE040 (valid until 2020)** → **PE041 (new 2021)**: 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.

**PL031 (valid until 2020)** → **PL032 (new 2021)**: Self-defined current economic status

→ 6 and above, top-coded to "6".

**PL211A-PL211L:** Main activity  
→ Merging "9" and "11" into "11".

**PX020:** Age at the end of the income reference period  
→ Variable to be removed.

**HH060; HH070; HH071; HS130; HX040; HX040; HX090; HX090; HY010; HY020; HY022; HY023; HY030; HY040; HY050; HY052; HY053; HY054; HY060; HY063; HY070; HY073; HY080; HY081G; HY090; HY100G; HY110G; HY130G; HY131G; HY140G; 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

*RB070 (valid until 2020)*: Month of birth

*PB130 (valid until 2020)*: Month of birth

→ Not provided.

*RB140 (valid until 2020)*: Month when the person moved out or died

*RB180 (valid until 2020)*: Month when the person moved in

→ Not provided.

**PL**

*PE040 (valid until 2020)* → *PE041 (new 2021)*: Highest ISCED level attained

→ Not top-coded.

**PT**

*DB040*: Region

→ NUTS2.

*HH031 (valid until 2020)*: Year of contract or purchasing or installation

→ Bottom coding: year of survey minus 55 and below.

*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.

*PL051 (valid until 2020)*: Occupation (ISCO-08)

→ *PL051A (new 2021)* Occupation in main job

→ **PL051B (new 2021)** Occupation (last job)

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

SI
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For each wave:

**DB100**: Degree of urbanisation

**RB070 (valid until 2020)**: Month of birth

**PB130 (valid until 2020)**: Month of birth

→ Not provided.

**HH031 (valid until 2020)**: Year of contract or purchasing or installation

→ Bottom coding: year of survey minus 71 and below.

**PE040 (valid until 2020)** → **PE041 (new 2021)**: 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.

**PL051 (valid until 2020)**: Occupation (ISCO-08 (COM))

→ **PL051A (new 2021)** Occupation in main job

→ **PL051B (new 2021)** 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

→ 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 €.

**PY031G (valid until 2020):** Optional employer's social insurance contributions

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

→ 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.

## UK

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

**RB070 (valid until 2020):** Month of birth

**PB130 (valid until 2020):** Month of birth

→ Not provided.

**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, PY031G, PY035G, PY050G, PY070G, PY080G, PY090G, PY100G, PY110G, PY120G, PY130G, PY140G, PY200G*:

- *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**