



EUROPEAN COMMISSION
EUROSTAT

Directorate F: Social statistics
Unit F-4: Income and living conditions; Quality of life

SILC DISCLOSURE CONTROL RULES

YEAR 2021

CROSS-SECTIONAL 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

RX010: Age at the time of interview

RX020: Age at the end of income reference period

RX030: Household identification number

RX040: Work intensity (new definition)

RX050: Low work intensity status (new definition) (0=no lwi, 1=lwi, 2=N/A)

RX060: Severely materially and socially deprived (0=not deprived, 1=deprived)

RX070: At risk of poverty or social exclusion (new definition) (1st digit= at risk of poverty, 2nd digit= Severely materially and socially deprived, 3rd digit= Low work intensity (0 when LWI in (0,2) 1 when LWI=1)

HX010: Change rate
HX040: Household size
HX050: Equivalised household size
HX060: Household type
HX070: Tenure status
HX080: Poverty indicator
HX090: Equivalised disposable income
HX120: Overcrowded household (*0=not overcrowded, 1=overcrowded, .=N/A*)

PX010: Change rate
PX020: Age at the end of the income reference period
PX030: Household identification number
PX040: Selected respondent status
PX050: Activity status

REMOVED VARIABLES

DB050: Primary strata
DB080: Household design weight
DB120: Contact at address
DB130: Household questionnaire result
DB135: Household interview acceptance

HB040: Day of household interview

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

RB083: Passing of birthday at time of interview

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

PE021: ISCED level currently attended

→ 50 and above.

PE041: Highest ISCED level attained

→ 500 and above.

PX020: Age at the time of interview

→ 80 and above.

GROUPING / RECODING / PROCESSING

DB040: NUTS

→ NUTS 1 level only.

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

→ Grouped in 5-year classes according to:

0 - 4 = 0

5 - 9 = 5

10 - 14 = 10

15 - 19 = 15

20 - 24 = 20

25 - 29 = 25

30 - 34 = 30

35 - 39 = 35

40 - 44 = 40

45 - 49 = 45

50 - 54 = 50

55 - 59 = 55

60 - 64 = 60

65 - 69 = 65

70 - 74 = 70

75 - 79 = 75

>=80 = 80

HB050: Month of household interview

→ Grouped into quarters.

HH010: Dwelling type

→ 5 recoded as missing.

RB280: Country of birth

→ Recoded "LOC", "EU" "OTH".

RB290: Citizenship 1

→ Recoded "LOC", "EU" "OTH".

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.

PL111A: Economic activity of the local unit for the main job

PL111B: Economic activity of the local unit (last job): NACE (Rev 2)

1 – 3= " a" /* Agriculture, forestry and fishing*/

5 – 39=" b – e" /* Mining and quarrying, Manufacturing, Electricity, gas, steam and air conditioning supply, Water supply*/

41 – 43=" f" /* Construction */

45 – 47=" g" /* Wholesale retail */

49 – 53=" h" /* Transportation and storage*/

55 – 56=" i" /* Accommodation and food service activities*/

58 – 63=" j" /* Information and communication */

64 – 66=" k" /* Financial and insurance activities */

68 – 82=" l – n" /* Real estate activities, Professional, scientific and technical activities, Administrative and support service activities */

84=" o" /* Public administration and defence, compulsory social security */

85=" p" /* Education */

86 – 88=" q" /* Human health and social work activities*/

90 – 99=" r – u" /* Arts, entertainment and recreation, Other service activities, Activities as household as employer..., Activities of extraterritorial organisations and bodies*/

PERTURBATION / PROCESSING

DB030: Household ID

→ Randomised and appropriate modification of related identification numbers (**RB030**, **RX030**, **RB220**, **RB230**, **RB240**, **HB030**, **HB070**, **PB030**, **PX030**, **PB160**, **PB170**, **PB180**).

DB060: PSU-1 (first stage)

→ Randomised.

DB062: PSU-2 (second stage)

→ Randomised.

2. COUNTRY SPECIFIC RULES

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PE021: ISCED level currently attended

→ 30, 34, 35, 39 grouped into 30.

→ 40, 44, 45, 49 grouped into 40.

→ 50, 54, 55, 59 grouped into 50.

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

PB230: Country of birth of the father → Recoded "LOC", "EU" "OTH".

PB240: Country of birth of the mother → Recoded "LOC", "EU" "OTH".

PB265: Personal ID of the person who filled in the individual questionnaire → removed

RB081: Age in completed years → removed

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

RB083: Passing of birthday at the time of the interview → removed

RB280 (new 2021): Country of birth

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

3. CALCULATED 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

RX030: Household identification number

RX030 = DB030

RX040: Work intensity (new definition)

Continuous variable from 0 to 1 (People older than 64 has $WORK_INT = 99$)

Based on persons aged 18-64 (but excluding students aged 18-24 and people who are retired according to their self-defined current economic status or who receive any pension (except survivors pension), as well as people in the age bracket 60-64 who are inactive and living in a household where the main income is pensions)

The work intensity status is assigned to each household member

RX050: Low work intensity status (new definition)

$0 = \text{no LWI}$, $1 = \text{LWI}$, $2 = \text{N/A}$

RX060: Severely materially and socially deprived household

$0 = \text{not severely deprived}$, $1 = \text{severely deprived}$

RX070: At risk of poverty or social exclusion (new definition)

1st digit = at risk of poverty, 2nd digit = severely materially and socially deprived, 3rd digit = low work intensity (0 when LWI in (0,2) 1 when LWI=1)

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. $HY020 * HX010 = \text{income data (national currency)}$

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:

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

HX060: Household type

- 5 - One person household
- 6 - 2 adults, no dependent children, both adults under 65 years
- 7 - 2 adults, no dependent children, at least one adult 65 years or more
- 8 - Other households without dependent children
- 9 - Single parent household, one or more dependent children
- 10 - 2 adults, one dependent child
- 11 - 2 adults, two dependent children
- 12 - 2 adults, three or more dependent children
- 13 - Other households with dependent children
- 16- Other (these household are excluded from Laeken indicators calculation)

Where dependent children is defined as:

- Household members aged 17 or less
- Household members aged between 18 and 24; economically inactive and living with at least one parent.

HX070: Tenure status

HX070 is derived from *HH021* and is used to calculate all “by tenure status” LAEKEN indicators

if *HH021* in (1,2,5) then *TENSTA* =1;

else if *HH021* in (3,4) then *TENSTA* =2;

else *TENSTA*=.;

HX080: Poverty indicator

HX080 = 0 when *HX090* >= at risk of poverty threshold (60% of MEDIAN *HX090*)

HX080 = 1 when *HX090* < at risk of poverty threshold (60% of MEDIAN *HX090*)

HX090: Equivalised disposable income

$$HX090= (HY020 / HX050)$$

HX120: Overcrowded household

0=not overcrowded, 1=overcrowded, .=N/A

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

PX050: Activity status

1 =

2 = SAL

3 = NSAL

4 = other employed (when time of SAL and NSAL is $> \frac{1}{2}$ of total time calendar)

5 = unemployed

6 = retired

7 = inactive

8 = other inactive (when time of unemployed, retirement and inactivity is $> \frac{1}{2}$ of total time calendar)

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