# Romania 2011

## 1 Survey Description

**Survey:** EU Statistics on Income and Living Conditions household and individual survey (EU-SILC), carried out by the Statistical Office of the European Union, for the 2011

**Link to the document:** https://www.gesis.org/en/missy/metadata/EU-SILC/2011/#RO

**Sample:** The survey employed a comprehensive sampling approach, incorporating probabilistic, random, stratified,and multi-stage designs for a robust representation of the population. There are 15,791 individuals in the total sample and 6,561 individuals in the analysis sample. Section 3 of this document describes the prevalence and pattern of missing data.

**Weights:** The survey employs the household as unit of analysis and utilizes the inverse of selection probability as a weighting method

**Outcome:** The outcome variables are annual equivalized household disposable total (*eq_iinc*) income in dollars PPP 2017.[1]

**Circumstances:**

- Sex (female, male)
- Country of birth 'Birthplace' (Same country as country of residence, any european country except country of residence or, any other country, described in table 1)
- Fathers's edu. (levels of education, described in Table 2)
- Mother's edu. (levels of education, described in Table 2)
- Father's occ. (11 categories, 10 from 1-Digit ISCO + one category including death/unknown/unemployed, described in Table 3)
- Mother's occ. (11 categories, 10 from 1-Digit ISCO + one category including death-unknown-unemployed, described in Table 3)

[1] Income variable was equivalized using the square root scale.

# 2 Descriptive Statistics

Table 1: Respondant's socio-demographics - 2011

| | Analisis sample | Total sample |
|---|---|---|
| | (N=6,561) | (N=15,791) |
| **Gender** | | |
| Mean (SD) | 1.50 (0.500) | 1.52 (0.499) |
| Median [Min, Max] | 1.00 [1.00, 2.00] | 2.00 [1.00, 2.00] |
| **Region of birth** | | |
| 1 Local | 6,552 (99.9%) | 15,772 (99.9%) |
| 2 European Union | 0 (0%) | 8 (0.1%) |
| 3 Other | 9 (0.1%) | 10 (0.1%) |
| Missing | 0 (0%) | 1 (0.0%) |

Table 2: Parental education - 2011

| | Analisis sample | Total sample |
|---|---|---|
| | (N=6,561) | (N=15,791) |
| **Father's education (years)** | | |
| 0 Unknown | 429 (6.5%) | 489 (3.1%) |
| 1 None | 120 (1.8%) | 159 (1.0%) |
| 2 Low | 5,170 (78.8%) | 6,239 (39.5%) |
| 3 Medium | 617 (9.4%) | 1,731 (11.0%) |
| 4 High | 225 (3.4%) | 363 (2.3%) |
| Missing | 0 (0%) | 6,810 (43.1%) |
| **Mother's education (levels)** | | |
| 0 Unknown | 246 (3.7%) | 480 (3.0%) |
| 1 None | 149 (2.3%) | 182 (1.2%) |
| 2 Low | 5,206 (79.3%) | 6,223 (39.4%) |
| 3 Medium | 818 (12.5%) | 1,151 (7.3%) |
| 4 High | 142 (2.2%) | 173 (1.1%) |
| Missing | 0 (0%) | 7,582 (48.0%) |

Table 3: Parental occupation - 2011

| | Analisis sample | Total sample |
|---|---|---|
| | (N=6,561) | (N=15,791) |
| **Father's occupation (ISCO)** | | |
| 0 Dead/unknown/not working | 817 (12.5%) | 952 (6.0%) |
| 1 Manager | 41 (0.6%) | 88 (0.6%) |
| 2 Professional | 229 (3.5%) | 330 (2.1%) |
| 3 Technician | 231 (3.5%) | 313 (2.0%) |
| 4 Clerical | 108 (1.6%) | 132 (0.8%) |
| 5 Service | 118 (1.8%) | 210 (1.3%) |
| 6 Agriculture | 1,741 (26.5%) | 1,944 (12.3%) |
| 7 Craft/Trades | 1,605 (24.5%) | 1,980 (12.5%) |
| 8 Plant Operator | 811 (12.4%) | 1,055 (6.7%) |
| 9 Elementary | 732 (11.2%) | 875 (5.5%) |
| 10 Armed forces | 128 (2.0%) | 132 (0.8%) |
| Missing | 0 (0%) | 7,780 (49.3%) |
| **Mother's occupation (ISCO)** | | |
| 0 Dead/unknown/not working | 2,533 (38.6%) | 3,341 (21.2%) |
| 1 Manager | 10 (0.2%) | 29 (0.2%) |
| 2 Professional | 222 (3.4%) | 328 (2.1%) |
| 3 Technician | 172 (2.6%) | 269 (1.7%) |
| 4 Clerical | 186 (2.8%) | 282 (1.8%) |
| 5 Service | 366 (5.6%) | 602 (3.8%) |
| 6 Agriculture | 1,616 (24.6%) | 1,920 (12.2%) |
| 7 Craft/Trades | 542 (8.3%) | 688 (4.4%) |
| 8 Plant Operator | 274 (4.2%) | 396 (2.5%) |
| 9 Elementary | 570 (8.7%) | 759 (4.8%) |
| 10 Armed forces | 70 (1.1%) | 74 (0.5%) |
| Missing | 0 (0%) | 7,103 (45.0%) |

Table 4: Respondant's income - 2011

| | N | Mean | SD | Median | Min | Max | Missing |
|---|---|---|---|---|---|---|---|
| Analisis sample | 6,561 | 7,401 | 4,996 | 6,429 | 18.66 | 110,047 | 0 |
| Total sample | 15,791 | 7,166 | 4,595 | 6,277 | 18.66 | 110,047 | 41 |

# 3 Missing data analysis

## 3.1 Missing patterns

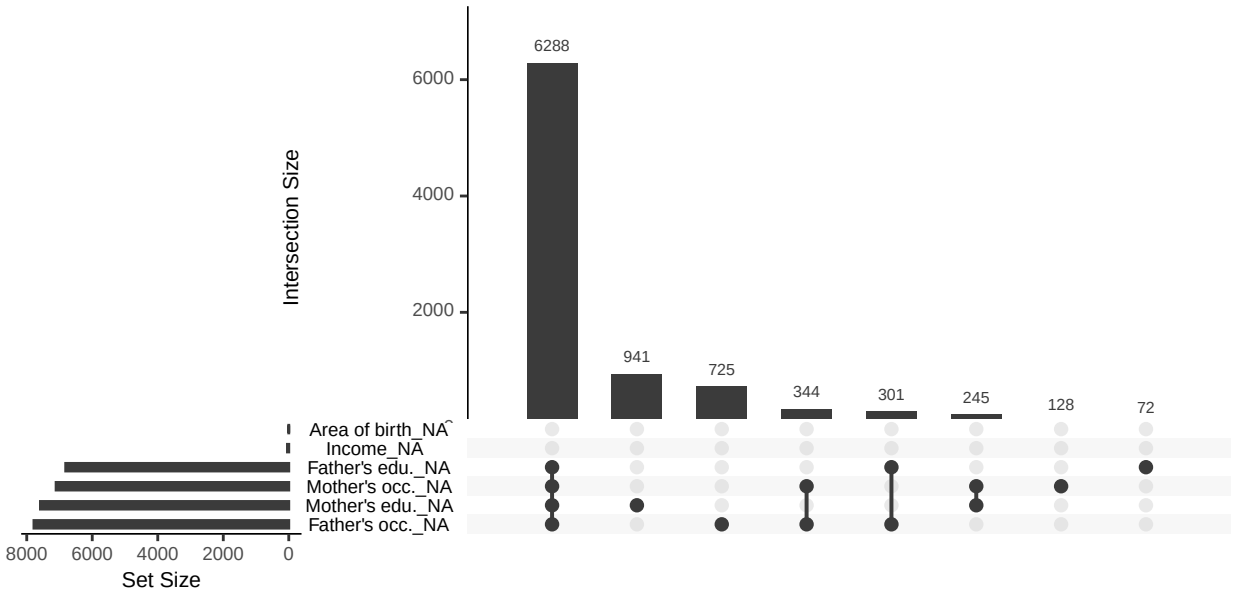


Figure 1: Missing patterns: *Left:* Marginal distribution of missing observations per variable. *Right:* Combination of missingness across cases

## 3.2 Differences in expected total equivalized household income between samples

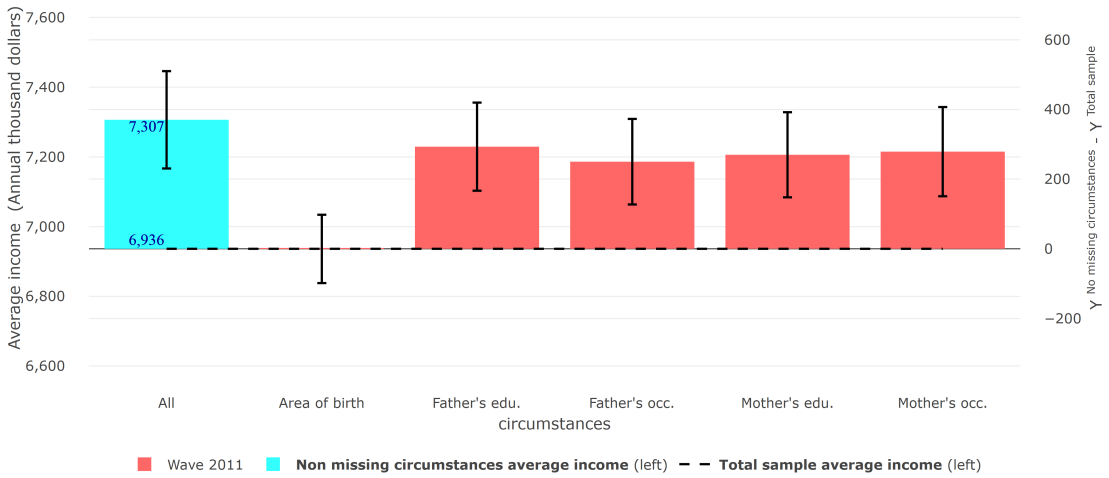


Figure 2: Differences in expected equivalized household income between the sample with non-missing circumstances and the total sample

## 3.3 Gini coefficient

Table 5: Gini coefficient in analysis sample and total sample

| Wave | Sample | Gini | Lower bound | Upper bound | Average income |
|---|---|---|---|---|---|
| Wave 2011 | Analysis sample | 0.340 | 0.324 | 0.341 | 7,307 |
| Wave 2011 | Total sample | 0.328 | 0.314 | 0.324 | 6,936 |

## 3.4 Differences in Gini coefficient between samples


Figure 3: Differences in Gini coefficient between the sample with non-missing circumstances and the total sample