

# Chile 2013

## 1 Survey Description

**Survey:** The Encuesta de Caracterización Socioeconómica Nacional (CASEN) carried out by the Ministry of Social Development and Family of Chile, for the year 2013.

**Link to the document:** <http://observatorio.ministeriodesarrollosocial.gob.cl/encuesta-casen-2013>

**Sample:** The survey was conducted between November 2013 and January 2014. The CASEN collects information from 15 regions and is nationally representative. The sample considered is restricted to adult individuals aged 31 to 72 with information about outcome and circumstances, 160,915 individuals in the total sample and 68,473 individuals in the analysis sample. Section 3 of this document describes the prevalence and pattern of missing data.

**Weights:** The weights are the inverse of the probability that the observation is included because of the sampling design adjusted by the projection of the number of individuals living in each household at each commune. It could be understood as the number of individuals in the population that an individual represents in the sample according to the 2002 Population Census for the rural area and the 2008 sampling frame (MM2008) for the urban area, adjusted by a non-response factor (*weights*).

**Outcome:** The outcome variables are annual equivalized household disposable total (*eq\_iinc*) income in dollars PPP 2017.<sup>1</sup>

**Circumstances:**

- Sex (female, male)
- Race (*ethnicity*: Aymara, Mapuche and others, described in Table 1)
- Region of birth 'Birthplace' ( 15 regions, described in Table 1)
- Father's edu. (years of education (maximum 15), described in Table 2)
- Mother's edu. (years of education (maximum 15), described in Table 2)

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<sup>1</sup>Income variable was equivalized using the square root scale.

## 2 Descriptive Statistics

Table 1: Respondant's socio-demographics - 2013

	Analysis sample	Total sample
	(N=68,473)	(N=160,915)
<b>Gender</b>		
0 Female	41,373 (60.4%)	85,981 (53.4%)
1 Male	27,100 (39.6%)	74,934 (46.6%)
<b>Ethnicity</b>		
1 Aymara	1,254 (1.8%)	2,775 (1.7%)
2 Rapa Nui	11 (0.0%)	24 (0.0%)
3 Quechua	125 (0.2%)	300 (0.2%)
4 Mapuche	6,189 (9.0%)	13,745 (8.5%)
5 Atacameño	130 (0.2%)	321 (0.2%)
6 Coya	105 (0.2%)	216 (0.1%)
7 Kawaskar	30 (0.0%)	68 (0.0%)
8 Yagan	4 (0.0%)	10 (0.0%)
9 Diaguita	300 (0.4%)	698 (0.4%)
10 Other	60,325 (88.1%)	142,433 (88.5%)
Missing	0 (0%)	325 (0.2%)
<b>Region of birth</b>		
1 Tarapcá	366 (0.5%)	701 (0.4%)
2 Antofagasta	1,682 (2.5%)	4,274 (2.7%)
3 Atacama	2,314 (3.4%)	5,815 (3.6%)
4 Coquimbo	2,393 (3.5%)	5,096 (3.2%)
5 Valparaíso	4,058 (5.9%)	10,427 (6.5%)
6 Libertador Gral.Bdo. O'Higgins	4,875 (7.1%)	12,518 (7.8%)
7 Maule	4,918 (7.2%)	11,528 (7.2%)
8 Biobío	5,288 (7.7%)	12,028 (7.5%)
9 Araucanía	10,410 (15.2%)	25,150 (15.6%)
10 Los Lagos	6,367 (9.3%)	14,036 (8.7%)
12 Magallanes	4,431 (6.5%)	10,963 (6.8%)
13 Metropolitana de Santiago	1,484 (2.2%)	3,263 (2.0%)
14 Los Ríos	5,795 (8.5%)	12,169 (7.6%)
15 Arica and Perinacota	14,092 (20.6%)	32,947 (20.5%)

Table 2: Parental education - 2013

	N	Mean	SD	Median	Min	Max	Missing
Analysis sample - Mother's edu	68,473	6.451	4.611	6	0	15	0
Analysis sample - Father's edu	68,473	6.878	4.807	6	0	15	0
Total sample - Mother's edu	160,915	6.786	4.665	6	0	15	66,375
Total sample - Father's edu	160,915	7.480	4.833	8	0	15	70,741

Table 3: Respondant's income - 2013

	N	Mean	SD	Median	Min	Max	Missing
Analysis sample	68,473	17,096	25,363	10,055	24.87	828,427	0
Total sample	160,915	15,764	23,442	9,830	24.70	828,427	1,331

### 3 Missing data analysis

#### 3.1 Missing patterns

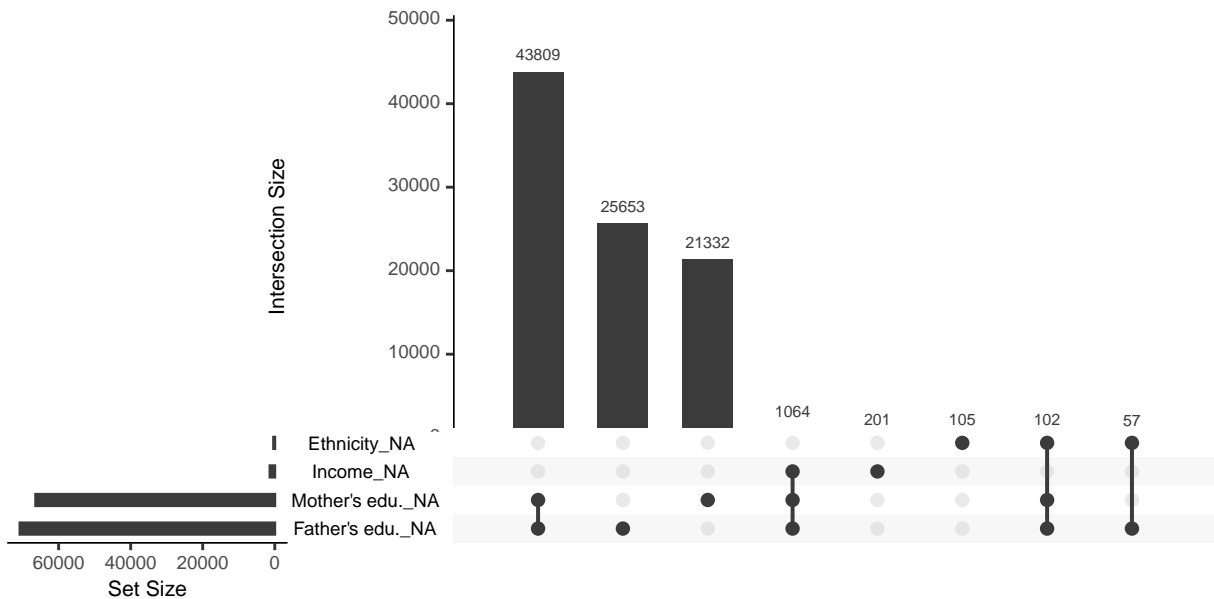


Figure 1: Missing patterns: *Left*: Marginal distribution of missing observations per variable. *Right*: Combination of missingness across cases

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

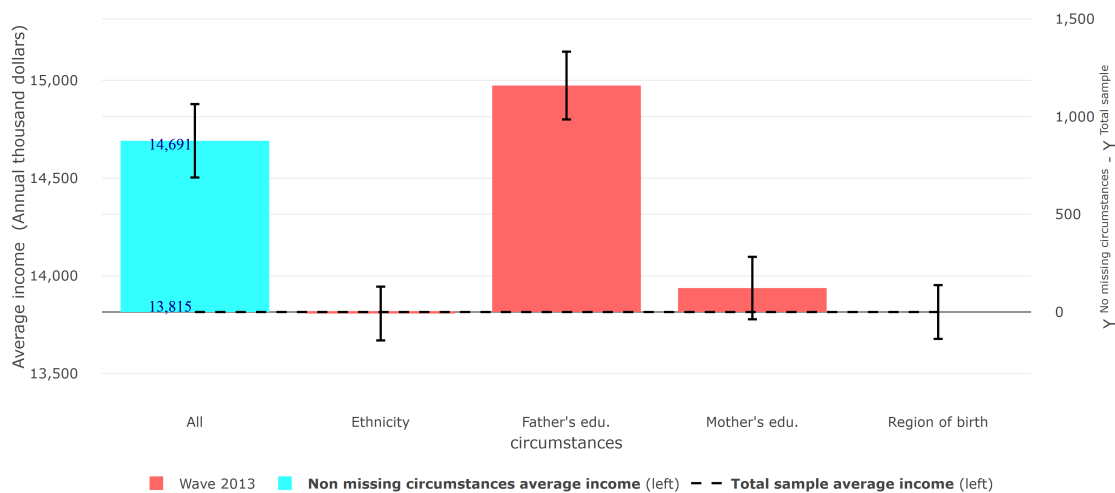


Figure 2: Differences in expected total equivalized household income between the sample with non-missing circumstances and the total sample

### 3.3 Gini coefficient

Table 4: Gini coefficient in analysis sample and total sample

Wave	Sample	Gini	Lower bound	Upper bound	Average income
Wave 2013	Analysis sample	0.513	0.481	0.498	14,691
Wave 2013	Total sample	0.493	0.463	0.474	13,815

### 3.4 Differences in Gini coefficient between samples

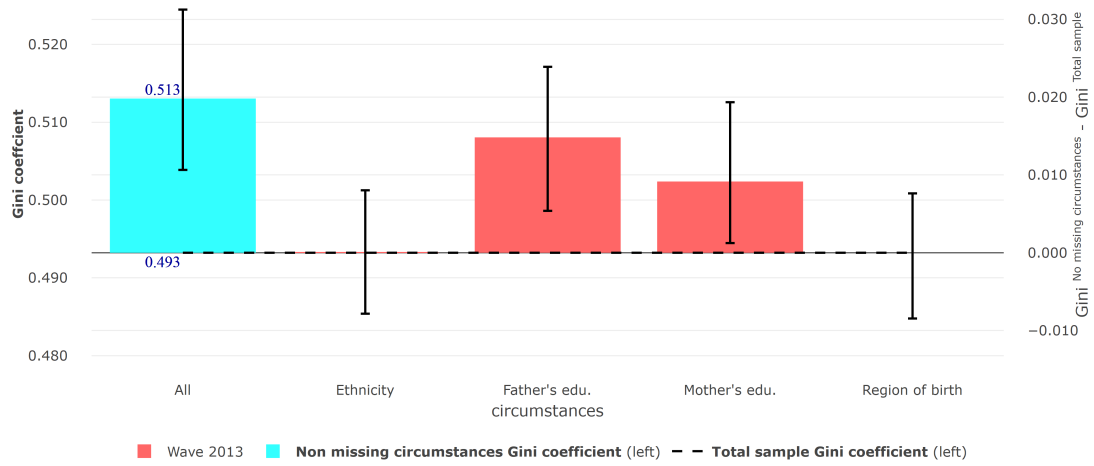


Figure 3: Differences in Gini coefficient between the sample with non-missing circumstances and the total sample