Bolivia 2008

1 Survey Description

Survey: Encuesta de Hogares (EH), carried out by the National Institute of Statistics (INE) of Bolivia, for the year 2008.

Link to the document: https://catalog.ihsn.org/index.php/catalog/4288

Sample: The survey was conducted between January and December 2008. The EH collects information from 9 departments and is nationally representative. The sample considered is restricted to heads of the household and their partners aged 19 to 65 with information about outcome and circumstances, 8,917 individuals in the total sample and 4,197 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. It could be understood as the number of individuals in the population that an individual represents in the sample(*weights*).

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

Circumstances:

- Sex (female, male)
- Race 'Ethnicity' (indigenous, afro-descendant and others, described in Table 1)
- Region of birth 'Birthplace'(rural and urban, described in Table 1)
- Father's edu. (levels of education, described in Table 2)
- Mother's edu. (levels of education, described in Table 2)
- Father's occ. (10 categories, 10 from 1-Digit ISCO + one category including unemployed, described in Table 3)
- Mother's occ. (10 categories, 10 from 1-Digit ISCO + one category including unemployed, described in Table 3)

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

2 Descriptive Statistics

Table 1: Respondant's socio-demographics - 2008

	Analisis sample	Total sample
	(N=4,197)	(N=8,917)
Gender		
0 Female	2,198 (52.4%)	4,707 (52.8%)
1 Male	1,999 (47.6%)	4,210 (47.2%)
Ethnicity		
1 Quechua	1,224 (29.2%)	2,640 (29.6%)
2 Aymara	1,152 (27.4%)	2,097 (23.5%)
3 Guarany	50 (1.2%)	125 (1.4%)
4 Chiquitano	75 (1.8%)	181 (2.0%)
5 Mojeño	22 (0.5%)	54 (0.6%)
6 Other	32 (0.8%)	42 (0.5%)
7 Non indigenous	1,642 (39.1%)	3,773 (42.3%)
Missing	0 (0%)	5 (0.1%)
Born in urban area		
0 No	1,920 (45.7%)	2,552 (28.6%)
1 Yes	2,277 (54.3%)	3,372 (37.8%)
Missing	0 (0%)	2,993 (33.6%)

Table 2: Parental education - 2008

	Analisis sample	Total sample
	(N=4,197)	(N=8,917)
Mother's education (levels)		
0 Never Attended	2,005 (47.8%)	3,307 (37.1%)
1 Primary or Adult basic education	1,368 (32.6%)	2,599 (29.1%)
2 Secondary	472 (11.2%)	934 (10.5%)
3 Tertiary	352 (8.4%)	759 (8.5%)
Missing	0 (0%)	1,318 (14.8%)
Father's education (levels)		
0 Never Attended	1,437 (34.2%)	2,298 (25.8%)
1 Primary or Adult basic education	1,693 (40.3%)	3,016 (33.8%)
2 Secondary	571 (13.6%)	1,079 (12.1%)
3 Tertiary	496 (11.8%)	1,021 (11.5%)
Missing	0 (0%)	1,503 (16.9%)

Table 3: Parental occupation - 2008

	Analisis sample	Total sample
	(N=4,197)	(N=8,917)
Mother's occupation (ISCO)		
0 Armed forces	203 (4.8%)	339 (3.8%)
1 Managers	11 (0.3%)	18 (0.2%)
2 Professionals	151 (3.6%)	251 (2.8%)
3 Technicians and Associate professionals	69 (1.6%)	118 (1.3%)
4 Clerks	51 (1.2%)	85 (1.0%)
5 Services and Sales workers	489 (11.7%)	869 (9.7%)
6 Agricultural, Forestry and Fishery workers	1,551 (37.0%)	2,288 (25.7%)
7 Craft and trade workers	185 (4.4%)	380 (4.3%)
8 Plant and machine opperators and assemblers	4 (0.1%)	5 (0.1%)
9 Elementary occupations	125 (3.0%)	236 (2.6%)
10 Unemployed	1,358 (32.4%)	2,478 (27.8%)
Missing	0 (0%)	1,850 (20.7%)
Father's occupation (ISCO)		
0 Armed forces	4 (0.1%)	12 (0.1%)
1 Managers	55 (1.3%)	107 (1.2%)
2 Professionals	254 (6.1%)	469 (5.3%)
3 Technicians and Associate professionals	126 (3.0%)	245 (2.7%)
4 Clerks	35 (0.8%)	69 (0.8%)
5 Services and Sales workers	278 (6.6%)	500 (5.6%)
6 Agricultural, Forestry and Fishery workers	2,257 (53.8%)	3,676 (41.2%)
7 Craft and trade workers	742 (17.7%)	1,470 (16.5%)
8 Plant and machine opperators and assemblers	307 (7.3%)	537 (6.0%)
9 Elementary occupations	137 (3.3%)	249 (2.8%)
10 Unemployed	2 (0.0%)	5 (0.1%)
Missing	0 (0%)	1,578 (17.7%)

Table 4: Respondant's income - 2008

	N	Mean	SD	Median	Min	Max	Missing
Analisis sample	4,197	6,210	7,462	4,018	22.34	88,700	0
Total sample	8,917	6,810	8,280	4,652	18.90	351,730	43

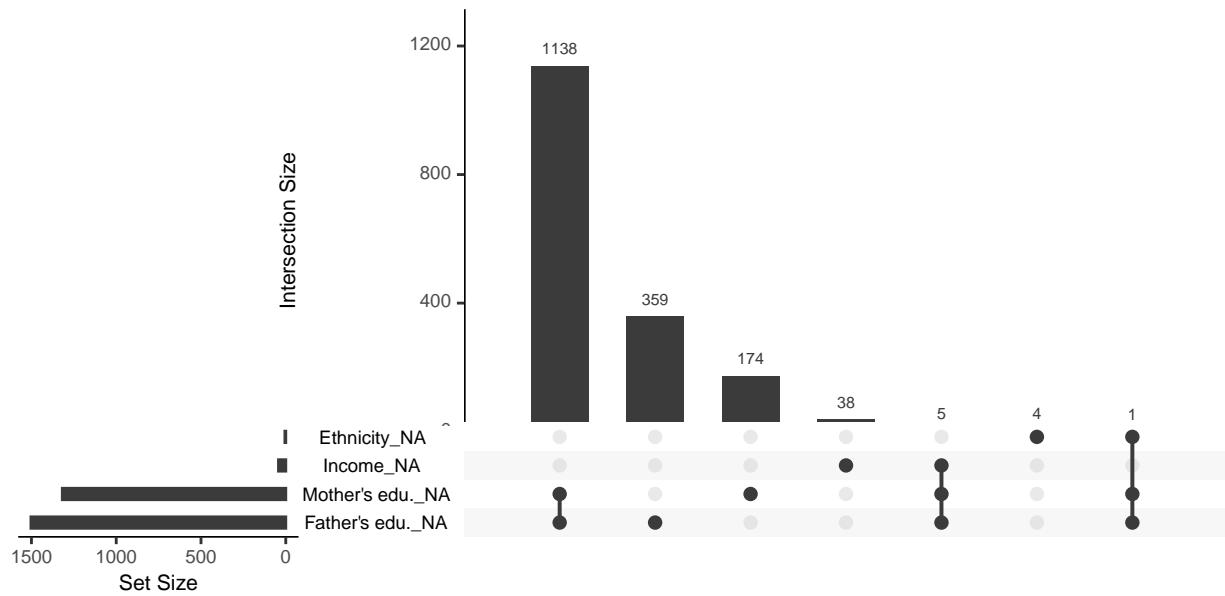# 3 Missing data analysis

3.1 Missing patterns

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

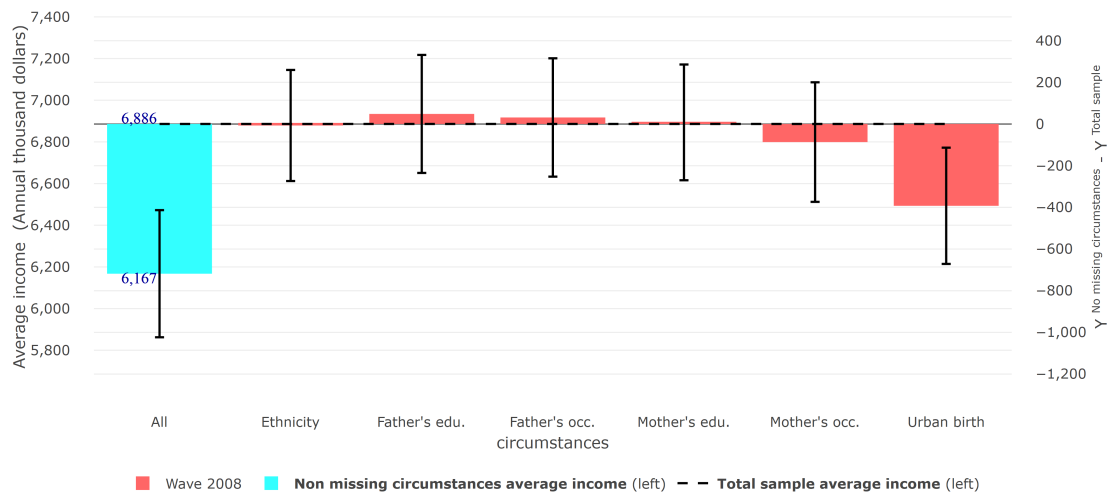## 3.2 Differences in expected total equivalized household income between samples

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 2008	Analysis sample	0.499	0.515	0.546	6,167
Wave 2008	Total sample	0.482	0.498	0.520	6,886

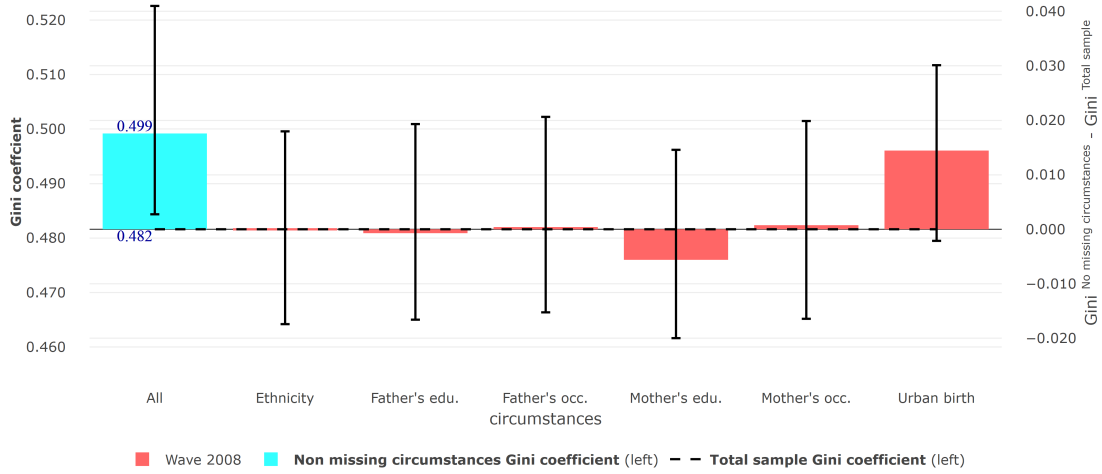## 3.4 Differences in Gini coefficient between samples

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