

Panama 2003

1 Survey Description

Survey: Encuesta de Niveles de Vida (ENV), carried out by the Directorate of Social Policies (DPS) at Ministry of Planning and Economic Policy (MIPPE) of Panama, for the year 2003.

Link to the document: <https://microdata.worldbank.org/index.php/catalog/2346>

Sample: The survey was conducted between August and November 2003. The ENCV collects information from 4 regions (8,000 households and 26,435 individuals) and is nationally representative. The sample considered is restricted to adult individuals aged 21 to 57 with information about outcome and circumstances (8,134 individuals). Section 3 of this document describes the prevalence and pattern of missing data., 15,761 individuals in the total sample and 13,974 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 according to the 2000 Population Census and demographic projections (*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 and others, 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)

¹Income variable was equivalized using the square root scale.

2 Descriptive Statistics

Table 1: Respondant's socio-demographics - 2003

	Analysis sample	Total sample
	(N=13,974)	(N=15,761)
Gender		
0 Female	7,084 (50.7%)	8,012 (50.8%)
1 Male	6,890 (49.3%)	7,749 (49.2%)
Ethnicity		
1 Indigenous	786 (5.6%)	869 (5.5%)
2 Other	13,188 (94.4%)	14,886 (94.4%)
Missing	0 (0%)	6 (0.0%)

Table 2: Parental education - 2003

	N	Mean	SD	Median	Min	Max	Missing
Analysis sample - Mother's edu	13,974	5.183	4.403	6	0	15	0
Analysis sample - Father's edu	13,974	5.461	4.572	6	0	15	0
Total sample - Mother's edu	15,761	5.191	4.377	6	0	15	897
Total sample - Father's edu	15,761	5.481	4.573	6	0	15	1,403

Table 3: Respondant's income - 2003

	N	Mean	SD	Median	Min	Max	Missing
Analysis sample	13,974	10,726	13,469	6,820	2.708	419,987	0
Total sample	15,761	10,516	13,145	6,743	2.708	419,987	0

3 Missing data analysis

3.1 Missing patterns

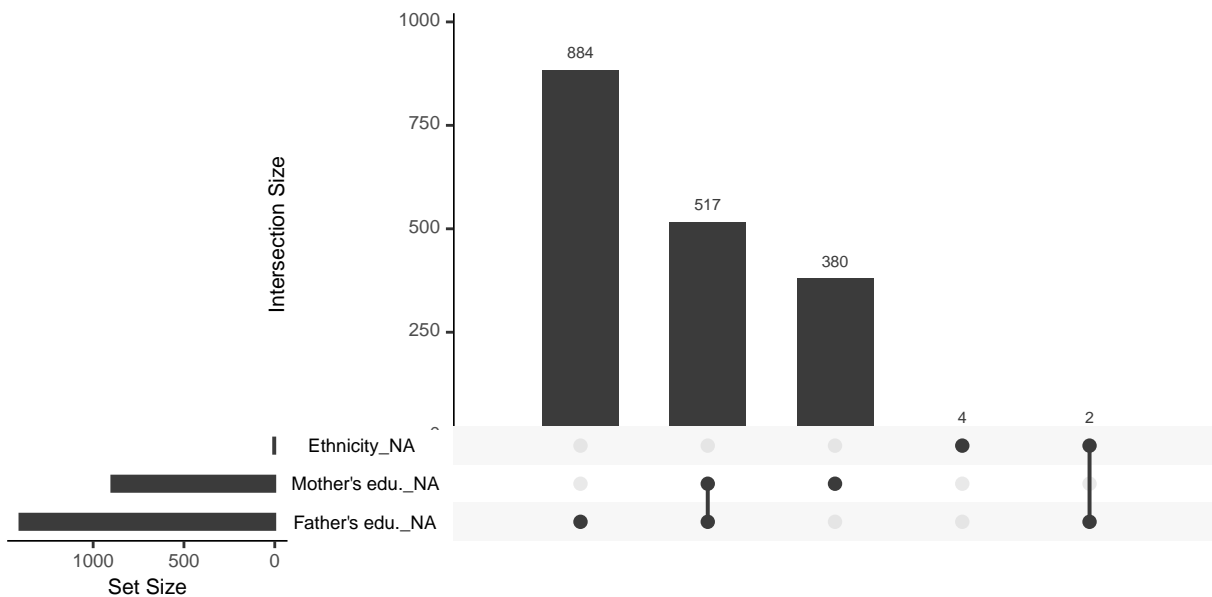


Figure 1: Missing patterns: *Left:* Marginal distribution of missing observations per variable. *Right:* Combination of missingness across cases

3.2 Differences in expected total equivalized household income between samples

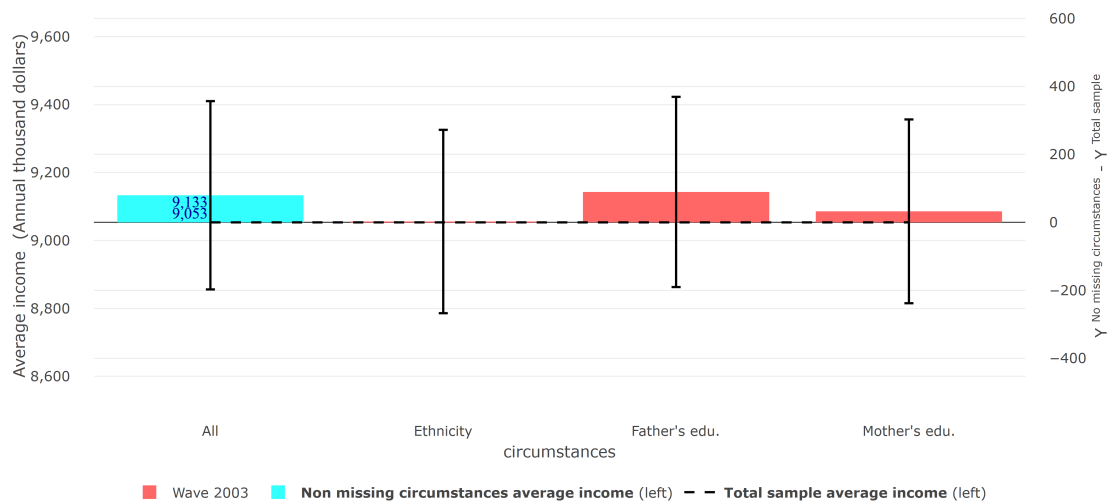


Figure 2: Differences in expected total equivalized household income between the sample with non-missing circumstances and the total sample

3.3 Gini coefficient

Table 4: Gini coefficient in analysis sample and total sample

Wave	Sample	Gini	Lower bound	Upper bound	Average income
Wave 2003	Analysis sample	0.533	0.522	0.539	9,133
Wave 2003	Total sample	0.527	0.518	0.535	9,053

3.4 Differences in Gini coefficient between samples

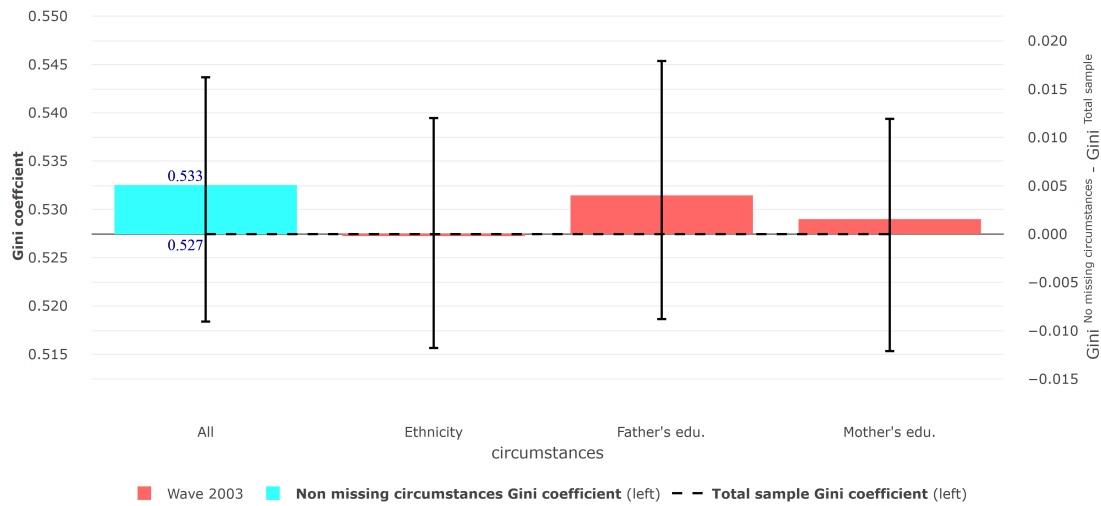


Figure 3: Differences in Gini coefficient between the sample with non-missing circumstances and the total sample