

Cooperative Property Rights and Development: Evidence from Land Reform in El Salvador: A Comment*

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[Montero \(2022\)](#) uses a land reform in El Salvador to investigate the long run causal effects of ownership structure on agricultural production and worker outcomes. The paper presents two main empirical findings: 1. Relative to outside-owned haciendas operated by contract workers, the productivity of worker-owned cooperatives is higher for staple crops and lower for cash-crops. 2. The cooperative workers have higher incomes and more compressed wage distributions than those working in the haciendas.

In this comment, we show that the second set of results rests on two mistakes in the analysis: three-quarters of the observations are duplicates and income inequality is calculated over too few workers to be meaningful. When corrected, the data sources and research design provide no credible evidence regarding the causal effects of ownership structure on income levels and inequality.

The identified issues concern a central finding of the paper: the causal effects on income levels and inequality are highlighted in both the abstract and the conclusion, as well as in the author’s own popularization of the work (see [Montero, 2017, 2019](#)). The result has also been referenced by others as clear evidence that land reforms lead to “*more*

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equitable rural economies based on staple crops and higher incomes” (Boberg-Fazlić et al., 2022, p.2), and that cooperative agriculture facilitates “*a more equitable distribution of agricultural revenue*” (Rao and Shenoy, 2022, p.6). Although these empirical claims are intuitively plausible and may well be true, they nonetheless lack empirical support of the kind claimed in Montero (2022).

We stress that the errors are confined to the analyses of income levels and distributions and that the research design employed in Montero (2022) is theoretically appropriate, but the specification described is not the one implemented and the actual data available is insufficient for the analysis. Below we start by describing the original results in more detail. We then describe the errors in turn and provide updated estimates, before we conclude.

1 Reproducing the original results

Montero (2022) estimates the long run causal effects of a property rights reform in El Salvador on workers’ income and inequality. The reform had been developed in secret and the military moved swiftly to implement the first phase in 1980: seizing agricultural land from owners whose total agricultural land holdings across all plots exceeded 500 hectares (ha), and transferring ownership to agricultural cooperatives run by permanent laborers working the land.

Three separate analyses are used to assess the effects on worker inequality and income. Two of these use a regression discontinuity design (RD) to assess how inequality and income levels differ for properties on different sides of the 500 ha discontinuity threshold, while the last uses a quantile regression to assess differences in the income distribution of haciendas and cooperatives.

The analyses use data from a repeated household survey, *Encuesta de Hogares de Propósitos Múltiples*, covering the period 2000 to 2013. This data includes geographical identifiers for each participant at the level of department, municipality and canton.¹ The survey data also includes information on whether an individual works in agriculture as a cooperative member or as a hacienda laborer. Montero (2022) uses this information to link the household survey data with the other property data, restricting the matching to

¹These cantons roughly correspond to villages according to footnote 11 in Montero (2022).

cantons with only one cooperative/large hacienda (p.60).

Inequality is measured using the interquartile range (IQR) of real per capita household income, defined as the value for the 75th percentile minus the value for the 25th percentile. In the replication code, this calculation is done at the level of property-year. Collapsing the data to this level, the specification used to estimate the effect on inequality can be written as follows:

$$\text{IQR}_{po,t} = \gamma \text{Above500}_o + f(\text{holdings}_o) + \sigma_t + \epsilon_{po,t}, \quad (1)$$

where $\text{IQR}_{po,t}$ is the IQR in year t among workers at plot p owned by owner o before the reform, Above500_o is an indicator variable for whether owner o had over 500 ha in cumulative landholdings before the reform, $f(\text{holdings}_o)$ is a linear control for the forcing variable (total landholdings of pre-reform property owner).

In columns 1 and 2 of table 1, we reproduce the main results on worker equity using this specification. Column 1 displays estimates when limiting the sample to properties within 300 ha of the reform threshold, while column 2 displays estimates when limiting the sample to properties within 150 ha of the reform threshold. The results suggest that the income distribution in cooperatives is more compressed than in haciendas.

The same survey data is used to study the effect of cooperatives on workers' income level, using the following specification:

$$\text{IncomePC}_{ipo,t} = \gamma \text{Above500}_o + f(\text{holdings}_o) + \sigma_t + \epsilon_{ipo,t}, \quad (2)$$

where $\text{IncomePC}_{ipo,t}$ is real income per capita (last month) for the household of worker i . We reproduce these estimates in columns 1 and 2 of table 3, using the broad and narrow bandwidth, respectively. The results suggest that workers at cooperatives have higher incomes on average. Finally, [Montero \(2022\)](#) uses the household survey data to estimate a quantile regression, which investigates how the income premium for cooperative workers varies across the income distribution. We reproduce this in the left panel of figure 1. The figure suggests that the cooperative ownership disproportionately boosts the earnings of the lowest quantiles.

2 Identified issues with the analysis

In this section, we first describe a mistake in the data construction: three-quarters of the worker-level data consist of duplicate observations. We then show that the implemented analysis differs from the description in the paper and that it measures income inequality based on too few workers to be meaningful. Correcting these issues, we conclude that the reported results on income levels and distributions do not hold.²

2.1 Duplicate observations

A visual inspection of the replication data indicates a large number of duplicates, as illustrated by the screenshots from the data editor in figure 2.

We use the raw data from the survey to remove duplicates from the author-submitted analysis data file. We first restrict the survey sample to observations with non-missing “property type”, as this variable was used by Montero (2022) to match the survey data to the property data. Next, we identify a set of survey variables that are both retained in the author’s analysis data and sufficient to uniquely identify individuals in the raw data.³ This allows us to remove all duplicates by collapsing the author’s estimation data to unique combinations of the identifying variables.⁴ For the broad bandwidth sample, this reduces the number of workers by three-quarters, from 4,770 to 1,146.

The duplication issue affects 129 of the 327 property-year observations, but leaves the number of aggregate property-year observations largely unchanged: as long as the duplicated observations of an individual are assigned to the same property, there will be at least one individual-level observation remaining to inform the property-year observation. This is largely the case, so while the duplicates reduce the individual level sample to a quarter of its original size, the number of property-year observations is only reduced by

²The replication package of Montero (2022) is found here: <https://www-journals-uchicago-edu.ezproxy.uio.no/doi/suppl/10.1086/717042>. The datafile used to study income levels and inequality is labelled: “*ehpm_incomemodule_wreform.dta*”. This file and the replication dofile for this comment can be found here: https://andreaskotsadam.files.wordpress.com/2023/02/replication_montero.zip.

³The following variables are sufficient to uniquely identify individuals within cantons: age, household size, household income, landholding type and the number of other workers at the property. The only exception is 2 non-unique observations in the survey for 2011. These observations are located in cantons that are not in the sample of Montero (2022).

⁴We manually checked households with more than one remaining observation against the raw data and removed individuals from these households that only appear in the estimation data. We removed 43 observations in this way. It is unclear to us how these observations appeared.

three.⁵⁶

2.2 Measuring inequality with too few observations

Inequality is measured at the property-year level as the inter-quartile range (IQR) of the individual-level survey observations assigned to this property-year cell. As noted in [Montero \(2022\)](#), this measure requires a certain number of observations to be meaningful: *“To construct measures of the income distributions, I limit the sample to cooperatives and haciendas for which there are at least five members represented in the household surveys”* ([Montero, 2022](#), p.75). The sample restriction means that the estimation sample will be more strongly affected by the duplicate issue than the “unrestricted” property-year sample, since the removal of duplicates strongly reduced the number of individual-level observations informing the property-year observations.

In addition, a review of the paper’s replication code revealed that the sample restriction described in the main text was not actually implemented in the code for the RD regression on income inequality. Even without removal of the duplicates, some 29% of the property-year units in the original broad bandwidth sample contain only *one* observation. The interquartile range of a single observation is by necessity zero, and these property-year observations cannot inform analyses of property-level inequality. An additional 32% of the property-year units in the author-submitted data contain two to four observations. In total, 61% of the property-year units in the paper’s own estimation sample should therefore have been excluded according to the criteria defined in the paper.

2.3 Updated results

In columns 3 and 4 of table 1, we show estimates of the effects of property right systems on the IQR once we correct the household data as described in section 2.1. The data corrections alone do not affect the estimates much. As mentioned, even though the

⁵Six unique individuals were found to have duplicated observations allocated to *different* properties. All observations for these individuals were discarded (as we do not know the correct property assignment). Three property-year observations were based on a single observation from one of these six individuals.

⁶A second data error concerns the variable for real household income, used in the computation of the outcome variables. By reviewing the computer codes, we infer that [Montero \(2022\)](#) used a consumer price index (CPI) published by the World Bank to deflate nominal income from different survey years. However, the computer code does not include the year 2010 and observations from this year are assigned a value of real income equal to zero. This implies that the IQR is calculated to be zero for all properties in 2010. In our corrected dataset, we handle this by including 2010 in the computer code, using the CPI value for this year. The correction does not affect the estimates much.

number of workers in the sample falls by three-quarters, the number of observations in the regressions barely changes as the sample is collapsed on property-year.

We next impose the sample restriction described in [Montero \(2022\)](#) and remove property-year units with less than five observations. We first impose the restriction to the original estimation data (which includes the duplicates). Estimates are shown in columns 5 and 6 of table 1. We are left with 128 property-year observations in the broad bandwidth sample, only three of which are above the RD threshold. In the narrow bandwidth sample we are left with 45 observations, only two of which are above the RD threshold. None of the results are statistically significant (p-values of 0.243 and 0.295, respectively).

We then impose the sample restriction to the corrected dataset (which excludes the duplicates). Estimates are shown in columns 7 and 8 of table 1. The remaining dataset is insufficient to perform the inequality analyses. The sample with the broad bandwidth has 70 remaining property-year units, but only one observation above the RD threshold; the narrow bandwidth sample has 26 property-year units below the threshold but no observations above the threshold. We thus conclude that the data at hand is insufficient to conduct the analysis as described in the paper.

2.4 Results with alternative sample restrictions

The issues we have identified are clear errors: duplicate observations and a failure to implement an explicitly stated (and methodologically important) sample restriction in the actual code.

Having said that, the number of individual-level observations required to compute a meaningful interquartile income range is not obvious. We find the paper’s choice of a five-observation minimum reasonable, but it is worth examining how sensitive the results are to alternative thresholds. We use the corrected (non-duplicate) data.

Estimates are shown in table 2. We first restrict the sample to property-years with more than three observations (columns 1 and 2), and then to property-years with more than two observations (columns 3 and 4). The sample sizes increase somewhat for these specifications but there are still only a few property-year units above the RD threshold. As a consequence, the estimated coefficients vary widely, from +182 in column 1 to -28 in column 2.

These results show that there is insufficient data to implement a regression discontinuity analysis on observations at the property-year level, since many property-year cells have sparse counts and do not allow us to meaningfully compute within-cell income inequality. We thus conclude that the original results on property right system on inequality do not hold for any reasonable sample restriction.

2.5 Results on income levels and quantile regression

Our main focus in this comment is on the inequality analysis, as this was a main outcome of interest in [Montero \(2022\)](#). The household survey data is, however, also used to estimate the effects of ownership structure on income levels and to run a quantile regression to identify the income effect at different points of the income distribution.

Starting with the RD analysis of income levels, we find that the estimates are no longer statistically significant in the corrected data (excluding the duplicates). As shown in columns 3 and 4 of table [3](#), the point estimate drops by three quarters using the broad bandwidth (p-value of 0.684) and switches sign in the narrow bandwidth sample (p-value of 0.566).

Turning to the quantile regression, our code review found that this analysis implements the sample restriction described for the inequality analysis. The restriction is not warranted in the present context as the quantile regression uses individual-level observations to compare the *overall* population of cooperative workers to the *overall* population of hacienda workers. Also, the sample restriction is not mentioned or discussed in the context of the quantile regression. In the right panel of figure [1](#) we present the results from the quantile regression when we disregard the sample restriction and use the corrected data.⁷ The figure is much less informative than the published figure and it no longer suggests that the *“earnings policies within reform cooperatives [...] help workers at the bottom of the income distribution”* ([Montero, 2022](#), p.76).

⁷We also add controls for age and age squared for each worker as described in [Montero \(2022\)](#) but not implemented in the submitted computer codes. The inclusion of these controls barely affect the estimated coefficients. The paper states that the quantile regression includes a control for gender as well. We are not able to add this control, as gender varies to little over the income distribution (93% of the sample are men).

3 Conclusion

In “*Cooperative Property Rights and Development: Evidence from Land Reform in El Salvador*”, it is claimed that workers of cooperatives have less income inequality and higher average incomes than workers of haciendas. The paper provides empirical evidence on this by combining household survey data with other data on cooperatives and haciendas.

In this comment, we have shown that these conclusions are wrong – in the sense that they are not supported by the data once duplicate observations are removed and the analyses are implemented as described in the paper. While the mistakes are confined to the results on worker income and inequality, these results are a key finding highlighted in the abstract and the conclusion of the paper. Recent papers citing [Montero \(2022\)](#) also highlight these results.

We fully agree with [Montero \(2022\)](#) when arguing that “*property rights institutions are of central importance to understanding economic development*”, and that there is “*limited causal empirical evidence on the impacts of different property rights system*” (p. 87). Unfortunately, we still lack robust and credible empirical evidence regarding the effects of different property rights system on worker equity. We hope that more research will be conducted in this area.

References

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TABLE 1: Household Income per Capita, Interquartile Range

	Original results		Corrected data		Sample restriction		Corrected data and sample restriction	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Above500	-42.97** (17.82)	-51.79** (24.79)	-72.24*** (17.37)	-79.78*** (22.67)	-50.91 (24.79)	-90.86 (43.09)	-65.81 (45.36)	–
Observations	327	118	324	116	128	45	70	26
Clusters	98	36	98	36	54	21	31	12
#Treated prop.	30	21	27	19	3	2	1	0
#Workers	4,770	1,583	1,146	420	4,377	1,434	675	254
Bandwidth	300	150	300	150	300	150	300	150

The table shows estimates of the effect of the land reform on inequality. Columns 1 and 2 reproduce columns 3 and 4 of table 5 in [Montero \(2022\)](#). The estimates in columns 3 and 4 are based on the corrected data (excluding duplicates). The estimates in columns 5 and 6 impose the sample restriction described in [Montero \(2022\)](#) to the original estimation data (including duplicates). The estimates in columns 7 and 8 impose the sample restriction to the corrected data. “Above500” is a binary variable equal to 1 if the former owner had over 500 ha in cumulative landholdings in 1980; “Observations” displays the number of property-year units; “Clusters” displays the number of clusters (former land owners); “#Treated prop.” displays the number of property-year units above the RD threshold; “#Workers” displays the number of workers included in IQR calculation; while “Bandwidth” shows the RD bandwidth in ha.

*** $p < .01$, ** $p < .05$.

TABLE 2: Alternative sample restrictions and specifications, Interquartile Range

	Property-year n>3		Property-year n>2	
	(1)	(2)	(3)	(4)
Above500	182.20*** (21.52)	-28.35 (49.07)	157.08*** (21.82)	-3.53 (42.03)
Observations	98	37	136	49
Clusters	46	16	62	20
#Treated prop.	4	3	6	4
#Workers	787	298	901	334
Bandwidth	300	150	300	150

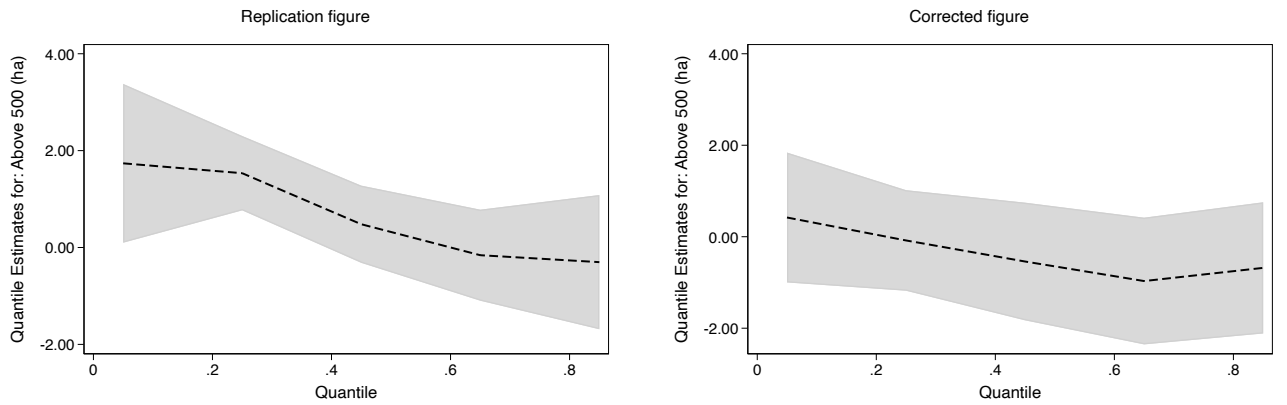
The table shows estimates of the effect of the land reform on inequality using alternative sample restrictions. All estimates are based on the corrected data (excluding duplicates). The sample used in columns 1 and 2 is restricted to property-year units with more than three observations, while the sample in columns 3 and 4 is restricted to property-year units with more than two observations. “Observations” displays the number of property-year units; “Clusters” displays the number of clusters (former land owners); “#Treated prop.” displays the number of property-year units above the RD threshold; “#Workers” displays the number of workers included in IQR calculation.
*** $p < .01$

TABLE 3: Household Earnings per Capita (Previous Month), Levels

	Original results		Corrected data	
	(1)	(2)	(3)	(4)
Above500	60.49* (31.03)	52.79 (40.61)	13.21 (32.35)	-24.24 (41.90)
Observations	4770	1583	1146	420
Clusters	98	36	98	36
#Treated	88	48	51	31
Bandwidth	300	150	300	150

The table shows estimates of the effect of the land reform on income levels. Columns 1 and 2 reproduce columns 3 and 4 of table 5 in [Montero \(2022\)](#). The estimates in columns 3 and 4 are based on the corrected data (excluding duplicates). “Observations” displays the number of workers; “Clusters” displays the number of clusters (former land owners); “#Treated” displays the number of workers above the RD threshold.
* $p < .1$.

FIGURE 1: Figure 6 in [Montero \(2022\)](#), replication and corrected



Note: The figure presents estimated quantile RD coefficients, using a bandwidth of 150 ha from the RD threshold. The independent variable is the log of real per capita household income. The regression includes year fixed effects and a linear control for the forcing variable (total landholdings of pre-reform property owner), estimated separately on each side of the RD threshold. Standard errors are clustered at the former-owner level and the gray areas display 95% confidence intervals. The left figure reproduces figure 6 in [Montero \(2022\)](#). The quantile regression shown in the right figure follows the description in [Montero \(2022\)](#): it does not impose any sample restrictions; it is based on the corrected data; and it includes controls for age and age squared of each worker.

FIGURE 2: Screenshots of estimation data

id	hh_head_cmr	dept	munic	canton	year	survey_year	hh_income	hh_income_pc	gender	age	literate	hh_head_cmr	dept	munic	canton	year	survey_year	hh_income	hh_income_pc	gender	age	literate	
1561	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3654	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1562	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3655	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1563	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3656	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1564	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3657	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1565	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3658	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1566	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3659	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1567	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3660	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1568	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3661	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1569	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3662	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1570	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3663	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1571	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3664	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1572	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3665	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1573	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3666	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1574	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3667	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1575	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3668	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1576	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3669	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1577	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3670	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1578	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3671	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1579	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3672	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1580	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3673	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1581	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3674	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1582	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3675	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1583	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3676	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1584	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3677	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1585	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3678	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1586	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3679	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1587	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3680	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1588	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3681	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1589	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3682	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1590	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3683	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1591	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3684	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1592	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3685	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1593	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3686	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1594	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3687	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1595	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3688	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51
1596	-	La Unión	16	1	2010	-	119.5	39.83	Hombre	22	51	3689	-	La Paz	15	21	2011	2011	381.67	63.61	Hombre	50	51

id	hh_head_cmr	dept	munic	canton	year	survey_year	hh_income	hh_income_pc	gender	age	literate	hh_head_cmr	dept	munic	canton	year	survey_year	hh_income	hh_income_pc	gender	age	literate	
2385	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4822	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2386	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4823	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2387	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4824	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2388	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4825	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2389	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4826	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2390	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4827	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2391	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4828	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2392	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4829	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2393	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4830	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2394	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4831	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2395	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4832	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2396	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4833	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2397	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4834	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2398	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4835	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2399	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4836	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2400	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4837	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2401	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4838	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2402	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4839	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2403	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4840	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2404	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4841	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2405	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4842	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2406	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4843	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2407	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4844	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2408	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4845	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2409	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4846	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2410	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4847	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2411	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4848	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2412	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4849	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51
2413	2	Cabafes	5	16	2001	2001	26	7	Hombre	54	51	4850	-	La Paz	15	21	2013	2013	153.33	51.11	Hombre	25	51

Note: The figure displays four screenshots from the estimation data, labelled “*ehpm_incomemodule_wreform.dta*” in the replication package of [Montero \(2022\)](#). This datafile is used to study the effect of the land reform on income levels and distributions.