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No. 20 I4R DISCUSSION PAPER SERIES

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Anders Kjelsrud Andreas Kotsadam Ole Rogeberg



14R DISCUSSION PAPER SERIES

14R DP No. 20

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

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Cooperative Property Rights and Development:

Evidence from Land Reform in El Salvador:

A Comment*

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March, 2023 (updated version, March 10)**

Abstract

Montero (2022) explores a discontinuity in a land reform in El Salvador and reports two main findings. First, relative to outside-owned haciendas operated by contract workers, the productivity of worker-owned cooperatives is higher for staple crops and lower for cash-crop. Second, cooperative property rights increase workers' incomes and compress wage distributions. In this comment, we show that the latter result rests on two mistakes: 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 comment is accepted at the *Journal of Political Economy*. The issues were identified during the Oslo Replication Games organized by the Institute for Replication. We thank Eduardo Montero for making the replication data and code freely available, and for his admirable response in support of research integrity in his personal communications with our team. We further thank the editor of the JPE, Emir Kamenica, and Abel Brodeur, Kalle Moene, Sahar Parsa and Oddbjørn Raaum for insightful comments. Replication files for this comment can be found here: https://andreaskotsadam.files.wordpress.com/2023/02/replication_montero.zip.

^{**} We made the following change: The standard errors in columns 5 and 6 in table 1 were erroneously reported as 24.79 and 43.09. The standard errors are now reported as 43.09 and 84.53. We thank Rony Rodriguez-Ramirez for pointing out this error.

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1 Introduction

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 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.

2 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 Multiples*, 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 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:

$$IQR_{po,t} = \gamma Above 500_o + f(holdings_o) + \sigma_t + \epsilon_{po,t},$$
(1)

where $IQR_{po,t}$ 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, $f(holdings_o)$ 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:

IncomePC_{ipo,t} =
$$\gamma$$
Above500_o + f (holdings_o) + σ_t + $\epsilon_{ipo,t}$, (2)

where Income $PC_{ipo,t}$ 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.

3 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.

3.1 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.² This allows us to remove all duplicates by collapsing the author's estimation data to unique combinations of the identifying variables.³ 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 three.⁴⁵

3.2 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 restric-

²The 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).

³We 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.

⁴Six 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.

⁵A 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.

tion 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.

3.3 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 3.1. The data corrections alone do not affect the estimates much. As mentioned, even though the 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.

3.4 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.

3.5 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 imple-

ments 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.⁶ 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).

Conclusion 4

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.

⁶We 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 $_{10}$ sample are men).

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Table 1: Household Income per Capita, Interquartile Range

	,	ginal ults		ected ita		nple action	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 (43.09)	-90.86 (84.53)	-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

	Propert n>		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			

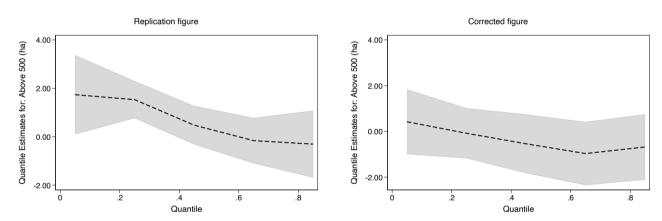
The table shows estimates of the effect of the land reform on inequality using alternative sample restrictions. All estimates are based on the corrected data (excluding duplicates). The sample used in columns 1 and 2 is restricted to property-year units with more than three observations, while the sample 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

	,	ginal ults	0	rected ata		
	(1)	(2)	(3)	(4)		
Above500	60.49*	52.79	13.21	-24.24		
	(31.03)	(40.61)	(32.35)	(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

	hh_head_or~r	dept	munic	canton	year	survey_year	hh_income h	hh_income_pc	gender	age literate		hh_head_or~r	dept	munic	canton	year	survey_year	hh_income	hh_incone_pc	gender	age literate
1561		La Unión	16		2010		119.5	39.83	Hombre	22 Si	3654		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1562		La Unión			2010		119.5	39.83	Hombre	22 Si	3655		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1563		La Unión			2010		119.5	39.83	Hombre	22 Si	3656		La Paz La Paz	15	21	2011 2011	2011	381.67 381.67	63.61 63.61	Hombre	50 Si 50 Si
1564 1565		La Unión	16 16		2010		119.5	39.83 39.83	Hombre Hombre	22 Si 22 Si	3657 3658		La Paz La Paz	15 15	21 21	2011	2011 2011	381.67	63.61	Hombre Hombre	50 Si 50 Si
1565		La Unión	16		2010		119.5	39.83	Hombre	22 S1 22 S1	3659		La Paz	15	21	2011	2011	381.67	63.61	Hombre	50 Si
1567		La Unión	16		2010		119.5	39.83	Hombre	22 51	3660		La Paz	15	21	2011	2011	381.67	63.61	Hombre	50 Si
1568		La Unión	16		2010		119.5	39.83	Hombre	22 Si	3661		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1569		La Unión			2818		119.5	39.83	Hombre	22 Si	3662		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1570		La Unión			2010		119.5	39.83	Hombre	22 Si	3663		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1571		La Unión			2010		119.5	39.83	Hombre	22 Si	3664		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1572		La Unión			2010		119.5	39.83	Hombre	22 Si	3665		La Paz	15	21	2011	2011	381.67	63.61	Hombre Hombre	50 Si
1573		La Unión	16 16		2010 2010		119.5	39.83	Hombre	22 Si	3666 3667		La Paz La Paz	15 15	21 21	2011 2011	2011 2011	381.67 381.67	63.61 63.61	Hombre	50 Si 50 Si
1574 1575		La Unión La Unión	16 16		2010		119.5	39.83 39.83	Hombre Hombre	22 Si 22 Si	3668		La Paz	15	21	2011	2011	381.67	63.61	Hombre	50 Si
1576		La Unión	16		2010		119.5	39.83	Hombre	22 Si 22 Si	3669		La Paz	15	21	2011	2011	381.67	63.61	Hombre	50 Si
1577		La Unión	16		2010		119.5	39.83	Hombre	22 Si	3670		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1578		La Unión			2818		119.5	39.83	Hombre	22 Si	3671		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1579		La Unión			2818		119.5	39.83	Hombre	22 Si	3672		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1580		La Unión			2010		119.5	39.83	Hombre	22 Si	3673		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1581		La Unión			2010		119.5	39.83	Hombre	22 51	3674		La Paz	15	21	2011	2011	381.67	63.61	Hombre	50 Si
1582		La Unión	16		2010		119.5	39.83	Hombre	22 Si	3675 3676		La Paz La Paz	15 15	21 21	2011 2011	2011 2011	381.67 381.67	63.61 63.61	Hombre	50 Si 50 Si
1583 1584		La Unión La Unión	16 16		2010 2010		119.5	39.83 39.83	Hombre Hombre	22 Si 22 Si	3677		La Paz	15	21	2011	2011	381.67	63.61	Hombre	50 Si
1584		La Unión La Unión	16 16		2010		119.5	39.83	Hombre Hombre	22 Si 22 Si	3678		La Paz	15	21	2011	2011	381.67	63.61	Hombre	50 Si
1586		La Unión	16		2010		119.5	39.83	Hombre	22 Si 22 Si	3679		La Paz	15	21	2011	2011	381.67	63.61	Hombre	50 Si
1587		La Unión	16		2010		119.5	39.83	Hombre	22 Si	3680		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1588		La Unión			2010		119.5	39.83	Hombre	22 Si	3681		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1589		La Unión			2010		119.5	39.83	Hombre	22 Si	3682		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
1598		La Unión			2010		119.5	39.83	Hombre	22 Si	3683		La Paz	15	21	2011	2011	381.67	63.61	Hombre	50 Si
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1596		La Unión	16		2010		119.5	39.83	Hombre	22 51	3689		La Paz			2011	2011	381.67	63.61	Hombre	50 Si
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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.