

Ecuación 1

$$lny_{it} = \alpha + \beta_1 ln \bar{V}_{it} + \lambda_t \times X_{i,1930} + \lambda_t + \gamma_i + \varepsilon_{it},$$

• y_{it} = N burócratas ó tierras expropiadas

•
$$\bar{V}_{it} = \sum_{g=1}^{G} \frac{\bar{P}_{gt} \times Suitability_{ig}}{Avg. Suitability_{g}}$$
,

• $Suitability_{ig} = capacidad del municipio i para producir cultivo g (ton/Ha, FAO)$

TABLE 1. Commodity Shocks and Bureaucrats

	(1) Bureaucrats per 1,000 people (<i>Haciendas</i>)	(2) Bureaucrats per 1,000 people (<i>Haciendas</i>)	(3) Bureaucrats per 1,000 people (No <i>haciendas</i>)	(4) Bureaucrats per 1,000 people (<i>Haciendas</i>)
Commodity potential (log)	-7.92*	-9.39**	2.14	(Hadieridas)
, , ,	(4.33)	(4.11)	(3.14)	
Placebo commodity potential (log)				-0.34
Population in 1930 (log) \times 1940		0.12 (0.45)	0.97** (0.44)	(0.54) 0.29 (0.51)
Municipal surface area, Ha. (log) × 1940		0.090 (0.29)	0.15 (0.42)	0.49 (0.38)
Localities per Ha. in 1930 \times 1940		474.0 (351.0)	437.0 (459.7)	418.7 (348.2)
Population in agriculture in 1930 $(\%) \times 1940$		-0.022 (0.033)	-0.019 (0.028)	-0.034 (0.032)
Population in cities in 1930 (%) × 1940		-0.042 (0.034)	0.036 (0.029)	-0.035 (0.034)
Commodity potential (log) in 1930 × 1940		0.011 (0.17)	0.013 (0.21)	0.050 (0.17)
Year FE	Yes	Yes	Yes	Yes
Municipality FE	Yes	Yes	Yes	Yes
Within-Municipio Mean of DV	4.23	4.23	2.49	4.23
Within- <i>Municipio</i> SD of DV	2.34	2.34	1.75	2.34
R ²	0.74	0.74	0.75	0.74
Observations Number of <i>municipios</i>	3019 1557	3019 1557	1489 762	3019 1557

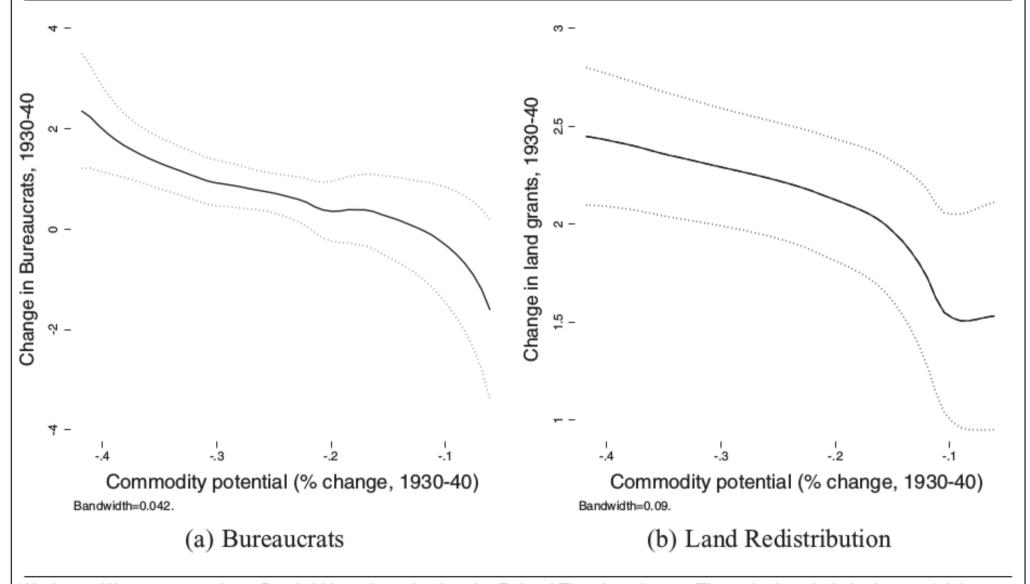
OLS estimations. See Equation (1) for the econometric specification. The unit-of-analysis is the *municipio* year. Standard errors (clustered at the *municipio* level) in parentheses.

p < 0.10, ** p < 0.05, *** p < 0.01.

TABLE 2. Commodity Shocks and Land Redistribution

	(1) Land reform, grants (<i>Haciendas</i>)	(2) Land reform, grants (<i>Haciendas</i>)	(3) Land reform, grants (No <i>haciendas</i>)	(4) Land reform, grants (<i>Haciendas</i>)
Commodity potential (log)	-3.31** (1.65)	-4.69*** (1.73)	3.78*** (1.24)	
Placebo commodity potential (log)	(/	()	` '	0.056 (0.32)
Population in 1930 (log) \times 1940		2.12*** (0.37)	0.43** (0.21)	1.96*** (0.35)
Municipal surface area, Ha. (log) × 1940		0.0090 (0.15)	0.41*** (0.13)	0.15 (0.16)
Localities per Ha. in 1930 \times 1940		40.9 (197.7)	17.6 (118.2)	2.25 (186.2)
Population in agriculture in 1930 (%) × 1940		0.017 (0.013)	0.0011 (0.0051)	0.015 (0.013)
Population in cities in 1930 (%) × 1940		0.015 (0.014)	0.0032 (0.012)	0.018 (0.014)
Commodity potential (log) in 1930 × 1940		-0.028 (0.11)	0.17** (0.080)	-0.0087 (0.11)
Land reform by 1930 (grants) × 1940		0.28 (0.38)	-0.74* (0.39)	0.31 (0.38)
Year FE Municipality FE	Yes Yes	Yes Yes	Yes Yes	Yes Yes
Within- <i>Municipio</i> Mean of DV Within- <i>Municipio</i> SD of DV	1.35 1.62	1.35 1.62	0.34 0.42	1.35 1.62
R ² Observations Number of <i>municipios</i>	0.58 3114 1557	0.65 3114 1557	0.61 1524 762	0.65 3114 1557

FIGURE 3. Bureaucrats, Land Redistribution, and Commodity Potential (1930–40) Negative commodity shocks increase bureaucrats and land redistribution.



Nadaraya-Watson regressions. Bandwidths selected using the Rule of Thumb estimator. The unit-of-analysis is the *municipio* year. *Municipios* with *haciendas*.

Ecuación 2 (x-seccional)

•
$$y_{i,1940} = \alpha + \beta_0 ln \bar{V}_i^{1920s} + \beta_1 S_i^{1920s-30s} + \delta X_i + \varepsilon_i$$

•
$$S_i^{1920s-30s} = \frac{\bar{V}_i^{1930s} - \bar{V}_i^{1920s}}{\bar{V}_i^{1920s}} \times 100.$$

TABLE 3. Commodity Shocks and Local Bureaucrats (1940)

	(1) Local	(2) Local	(3)	(4)	(5)	(6)
	bureaucrats per 1,000 people	bureaucrats per 1,000 people	Bureaucrats per 1,000 people	Bureaucrats per 1,000 people	Land redis- tribution (grants)	Land redis- tribution (grants)
Commodity potential 1920s (log)	-0.015	-0.012	0.034	-0.0097	0.13	-0.022
	(0.015)	(0.014)	(0.11)	(0.092)	(0.084)	(0.081)
% shock to commodity	-2.08***	_0.98***	—14.3***	_9.66***	-4.65***	-6.32***
potential	(0.34)	(0.30)	(3.52)	(2.77)	(1.52)	(1.64)
Population, 1930 (log)	(0.0.1)	-0.049	(0.0-)	-0.32	()	2.10***
· opaliation, root (tog)		(0.036)		(0.28)		(0.26)
Bureaucrats per 1000		0.017***		0.37***		(0.20)
people, 1930		(0.0048)		(0.044)		
Municipal surface area,		0.14***		0.67***		0.019
Ha. (log)		(0.025)		(0.20)		(0.10)
Localities per Ha., 1930		86.9**		973.4**		44.6
Localities per 11a., 1500		(37.3)		(401.0)		(139.7)
Pop. in agriculture 1930 (%)		-0.0082***		-0.047***		0.016*
rop. In agriculture 1930 (76)		(0.0024)		(0.017)		(0.0093)
Pag. in cities 1020 (%)		0.013***		0.076***		, ,
Pop. in cities 1930 (%)						0.015
Land raform by 1000		(0.0018)		(0.015)	2.85***	(0.010)
Land reform by 1930 (grants)					(0.31)	2.25*** (0.27)
Mean of DV	0.66	0.69	4.64	4.79	2.63	2.69
SD of DV	0.85	0.85	7.94	8.03	6.00	6.06
R ²	0.032	0.24	0.017	0.26	0.19	0.31
Number of <i>municipios</i>	1565	1462	1565	1462	1596	1557
Number of municipios	1303	1402	1303	1402	1000	1007

TABLE 4. Commodity Shocks and Long Term Local State Capacity

	(1)	(2)	(3) Local taxes	(4) Local taxes
	Bureaucrats per	Bureaucrats per	(% of mun.	(% of mun.
	1,000 people (2000)	1,000 people (2000)	GDP) Avg. 1989–2013	GDP) Avg. 1989–2013
Commodity potential 1920s (log)	-0.0092	-0.037	0.024***	0.027***
	(0.12)	(0.11)	(0.0076)	(0.0076)
% shock to commodity potential	-14.1***	-13.3***	-0.97***	-0.92***
Denoted as 4000 (leas)	(2.34)	(2.28)	(0.15)	(0.15)
Population, 1930 (log)	-1.32***	-2.66***	-0.034	0.067***
D	(0.30)	(0.33)	(0.022)	(0.020)
Bureaucrats per 1000 people, 1930	0.33***	0.28***	0.00051	0.0035**
Municipal confess and a Lie (lea)	(0.032)	(0.032)	(0.0014)	(0.0016)
Municipal surface area, Ha. (log)	0.14	0.28	0.012	0.0082
Localitics per Ho. 1020	(0.21)	(0.19)	(0.012) 59.8***	(0.012) 70.2***
Localities per Ha., 1930	630.0**	400.3		
Pan in agricultura 1020 (9/)	(297.1)	(260.8)	(22.3)	(22.7)
Pop. in agriculture 1930 (%)	-0.075*** (0.021)	-0.068*** (0.021)	-0.0028 (0.0017)	-0.0027* (0.0016)
Pop. in cities 1930 (%)	0.035***	0.032***	-0.00041	0.00014
Fop. III cities 1930 (%)		(0.010)	(0.00058)	(0.00064)
Municipal GDP 2005 (log)	(0.011)	1.51***	(0.00056)	-0.094***
Widilicipal GDF 2005 (log)		(0.21)		(0.017)
Federal transfers (log)		-0.60***		0.011
Avg. 1989–2013		(0.10)		(0.0068)
Avg. 1303 2010		(0.10)		(0.0000)
Mean of DV	9.71	9.71	0.42	0.42
SD of DV	6.69	6.69	0.46	0.46
R ²	0.23	0.28	0.037	0.077
Number of municipios	1455	1455	1462	1462