## **Supporting Information** *Epidemics, Rent Extraction, and the Value of Holding Office*

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#### A. Data Appendix

#### A.1 Major Epidemics in Mexico by the 18th Century

To construct our dataset on epidemics, we begin with the comprehensive chronology in Acuña Soto (2017). We then examine other known lists of important epidemics to identify possible additional disease outbreaks: Gibson (1964) and Florescano (1969), who list the dates of important epidemics and famines; Gerhard (1993a), who notes the most important epidemics in the colonial period; Malvido (1982), who extends the list of Florescano (1969); and Guedea (1991), who lists all of the epidemics mentioned in the *Gaceta de México*, the first periodical published on a regular basis in Mexico City, from 1728–1739.

Once we had identified a list of possible epidemics, we then investigated each one separately to identify the probable pathogen, the regions or modern Mexican states affected, and the approximate date of disease onset using these and other sources. While we were able to find comprehensive documentation on some larger epidemics, such as the outbreak of matlazahautl in 1736–1738, the historical record is more sparse on the smaller ones. Given the limited information on some of these outbreaks, and given the similarity in reported symptoms between the major diseases (e.g., fever, rash, fatigue), it is sometimes difficult to precisely identify the disease for each outbreak. Information on the epidemics of 1710 and 1733 in particular is somewhat limited, and there remains some debate about the source and extent of those outbreaks. Our results are unchanged if we reclassify those epidemics as "matlazahuatl" as opposed to measles or smallpox. Our results are also unchanged if we omit the reported epidemic in Pachuca in 1728, which is thought to be part of the larger measles outbreak that year, but is coded as a famine rather than epidemic in some sources.

An additional challenge was designating the geographic coverage for each epidemic. Here we rely on both secondary literature and direct descriptions in primary sources. We classify districts as being affected whenever we find documentation of disease outbreaks in specific towns within the district. When descriptions reference a region or present-day Mexican state being affected, we code all districts within that unit as affected by the crisis. In addition, we classify an epidemic as affecting the "Valle de México," the area around Mexico City, when we find a reference to an epidemic affecting

both the city itself and the surrounding areas. This area designation includes the neighboring districts of Chalco, Coatepec, Tacuba, and Tezcuco (Texcoco) in addition to the city itself.

We list the identified epidemics and their sources in Table A.1.

Epidemic	Region	Years	Sources
Smallpox	See Table 1	1707	Malvido (1973); Gerhard (1993b); Acuña Soto (2017)
Smallpox	Nuevo Leon, Coahuila	1707	Gerhard (1993b); Acuña Soto (2017)
Smallpox	Baja California	1709	Gerhard (1993b); Acuña Soto (2017)
Smallpox	See Table 1	1710	Lorenzana (1770); Orozco y Berra (1938); Gibson (1964); Florescano (1969)
Smallpox Coughing disease	Northern Mexico Lampazos (Nuevo Leon)	1710 1712	Acuña Soto (2017) Acuña Soto (2017)
"Fevers," or matlazahuatl	See Table 1	1714	Cavo (1949); Cabrera y Quintero (1746); Gibson (1964); Florescano (1969)
Smallpox	Arizpe (Sonora)	1716-1723	Acuña Soto (2017)
Epidemic	Cusihuriachic (Nueva Vizcaya)	1720	Gerhard (1993b); Acuña Soto (2017)
Epidemic	Nayarit	1722	Gerhard (1993b); Acuña Soto (2017)
"Tabardillo"	San Felipe del Real (Chihuahua)	1727	Acuña Soto (2017)
Measles	See Table 1; also Sonora,Valle de San Bartolomé (Nueva Vizcaya), Chihuahua, Sinaloa, Tabasco, Chiapas	1728	Gibson (1964); Florescano (1969); Malvido (1973); Guedea (1991); Gerhard (1993b); Acuña Soto (2017) For Malinalco: Archivo General de la Nación, Indiferente Virreinal, C. 6665, exp. 55, 1728
Epidemic	Ciénega de Olivos, Cusihuriachic, (Nueva Vizcava), Sinaloa	1728	Gerhard (1993b); Acuña Soto (2017)
Smallpox Epidemic/famine Smallpox Hemorrhagic fever Matlazahuatl Smallpox	Sisoguíchic (Chihuahua) Pachuca Baja California Campeche/Yucatan Churubusco Veracruz	1728 1728 1729 1730 1731 1732	Gerhard (1993b); Acuña Soto (2017) Guedea (1991) Acuña Soto (2017) Guedea (1991) Gibson (1964) Guedea (1991)
"Alfombrilla,"	See Table 1	1733	Malvido (1973); Guedea (1991)
Smallpox	See Table 1	1734	Sedano (1880); Gibson (1964); Guedea (1991) Gibson (1964); Florescano (1969); Malvido (1973);
Matlazahuatl	See Table I	1/36-1/38	Gerhard (1993b);Molina del Villar (2001); Acuña Soto (2017)
Epidemic	Ciénega de Olivos, Cusihuriachic, (Nueva Vizcaya) Ostimuri (Sinaloa)	1740	Gerhard (1993b); Acuña Soto (2017)
"Tabardillo," or matlazahuatl	Sonora	1741	Gerhard (1993b): Acuña Soto (2017)
Epidemics,	Baja California	1742-1748	Gerhard (1993b); Acuña Soto (2017)
Smallpox	See Table 1	1748	Sedano (1880): Gibson (1964): Florescano (1969)
"Tabardillo"	San Luis Potosi	1748	Acuña Soto (2017)
Smallpox	See Table 1	1750	Gibson (1964); Florescano (1969); Acuña Soto (2017)

<b>Lable A.I.</b> Major Epidemics in Mexico, $1/02-1/3$	Tabl	e A.1:	Major	Epidemics	s in Mexico	, 1702-1750
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Notes: We highlight the epidemics used in the analysis in gray. Our results are substantively unchanged if we recode the epidemics of 1710 and 1733 as matlazahuatl, consistent with some sources. We code the reported epidemic in Pachuca in 1728 as measles, but note that results are not affected by its inclusion. Listed epidemics that are excluded from the analysis either affected districts where offices were not under sale at this time (the matlazahuatl outbreak in Churubusco in 1731; the outbreak of "tabardillo" in San Luis Potosi in 1748) or areas outside the *audiencias* of New Spain and Nueva Galicia, which are outside the scope of our study.

#### A.2 Public Granaries in Mexico by the 18th Century

To identify districts with public granaries, we systematically search for any mention of public granaries in the secondary literature and primary sources, including archival catalogs, legal compilations, and official correspondence. We also specifically investigate whether an *alhóndiga* or *pósito* were present in the most populous settlements of the late 18th century (given the paucity of population data for the first half of the century). Concretely, we investigate all 34 settlements with over 10,000 people according to Sánchez Santiró (2003) for 1777, "Plano que manifiesta la vbicacion..." for 1780, Castro Aranda (2010) for 1790, and Humboldt (1973) for 1804, as compiled by Stangl (2019). We further look for any reference to public granaries in settlements of over 5,000 people (according to these sources) that had been given the political categories of *ciudad*, *villa*, or *real de minas*, an additional mark of economic and social importance.

Dates and sources for each public granary are listed in Tables A.2–A.5. When there is ambiguity about the date of charter, we list the first date at which we could find a record of the granary being operational. For granaries chartered after 1750, note that there was a major revision to political divisions in 1786 with the introduction of the Intendancy system. We list the districts according to the Audiencia that they belonged to during the period under study for consistency.

Audiencia	District	Approximate Year of Creation	Sources		
	Mexico	1583	Florescano (1969)		
	San Luis Potosi	1609	Hernández Soubervielle (2012); Challú (2007); de León Meza (2016)		
	Queretaro	1656	Urquiola Permisán (2006)		
	Antequera	1689	Vila Vilar and Sarabia Viejo (1985)		
New Spain	1		García Acosta et al. (Vol. 1, p. 215 2003)		
-	Tlaxcala	Before 1695	Archivo General de la Nación,		
			Civil Volumenes, Vol. 76, exp. 25, 1727		
			Archivo Histórico Municipal de Morelia,		
	Valladolid	Before 1702	Fondo Colonial, C. 1, exp. 15-C, 1682–1702,		
			Valladolid; Challú (2007)		
			Archivo General de la Nación,		
	Pachuca	Before 1726	Indiferente Virreinal, C. 4650, exp. 36,		
			1726; Cruz Domínguez (2016)		
	Tlalpujagua	1731	Islas Jiménez (1994)		
	Guanajuato	1735	Vásquez de Warman (1968); Gordo Peláez (2013)		
Nueve Calisia	Zacatecas	1623	de León Meza (2016); Challú (2007)		
Inueva Galicia	Guadalajara	1672	de León Meza (2016); Challú (2007))		

 Table A.2: Public Granaries in Central Mexico by the 18th Century: Sample Districts

Notes: See Appendix Section A.2 for a description of the methodology. All public granaries are *alhóndigas*. When there is ambiguity about the date of charter, we code the earliest date at which we found a reference to the granary. Additional identified granaries outside the scope of our analysis are listed in Appendix Tables A.3–A.5.

		Oranaries in Dis	thets without Office Sales in 1702–1750			
Audiencia	District	Approximate Year of Creation	Sources			
Nova Casia	Vera Cruz Nueva 1595		Vila Vilar and Sarabia Viejo (1985)			
New Spain	Puebla	1626	Leicht (2017)			
Nueva Galicia	Sombrerete	Before 1739	Archivo Histórico Municipal de Sombrerete, Alcaldía Mayor,			
Nueva Galicia	Sombierete	Delote 1/39	Ayuntamiento, Justicia, C. 1, exp. 11/22, 1739			
	Donnal	Poforo 1612	Archivo Histórico del Municipio de Hidalgo del Parral,			
Nuovo Vizcovo	Fallal	Defote 1042	Hacienda y Tesorería, C. 1, exp. 1–10			
nueva vizcaya	Chihuahua	1672	Aboites (1994)			

Table A.3:	Public Granz	aries in Distric	ts without Office	Sales in	1702 - 1750
				vice vice vice vice vice vice vice vice	1/04 1/50

Notes: See Appendix Section A.2 for a description of the methodology. All public granaries are *alhóndigas*. When there is ambiguity about the date of charter, we code the earliest date at which we found a reference to the granary.

Audiencia	District	Approximate Year of Creation	Sources		
	Celaya	1754	Challú (2007)		
	Leon	1756	Challú (2007)		
New Spain	San Juan del Rio	Before 1767	Archivo General de la Nación, Indiferente Virreinal, C. 3646, exp. 37, 1767		
	Zapotlan	1786	Van Young (1981)		
	San Miguel el Grande	Before 1790	Archivo General de la Nación, Indiferente Virreinal, C. 5395, exp. 1, 1790		
	Salamanca	Before 1799	Morin (1979)		
	Sayula 1802		Van Young (1981)		
Nueva Galicia	Real de la Yesca	Before 1793	Archivo de la Real Audiencia de la Nueva Galicia, Archivo Civil, C. 368, exp. 4, 1793		
	Mazapil	Before 1797	Román et al. (1997)		
Nueva Vizcaya	Durango	1786	Casilleros from the "Archivo Histórico del Estado de Durango," C. 4, Expos. 1130, Rollo 37, fs. 6, 1786		

#### Table A.4: Alhóndigas Created after 1750

Notes: See Appendix Section A.2 for a description of the methodology. When there is ambiguity about the date of charter, we code the earliest date at which we found a reference to the granary.

Prior Audiencia	District	Approximate Year of Creation	Sources
	T1-	1705	Archivo General de la Nación,
	Tula	1/95	Indiferente Virreinal, C. 5761, exp. 5, 1795–1796
			Archivo General de la Nación,
	Chalco	1795	Indiferente Virreinal, C. 5761, exp. 6, 1795–1796.
			(See note.)
	Tanancingo	1705	Archivo General de la Nación
	Tenancingo	1/93	Indiferente Virreinal,C. 5761, exp. 9, 1795–1796
	Otumba	1705	Archivo General de la Nación,
	Otulliba	1795	Indiferente Virreinal, C. 5761, exp. 7, 1795–1796
	Taxco	1705	Archivo General de la Nación,
New Spain	Taxeo	1795	Indiferente Virreinal, C. 5761, exp. 10, 1795–1796
New Spann	Valana	Before 1796	Archivo General de la Nación,
	Лагара	Defote 1/90	Indiferente Virreinal, C. 4973, exp. 67, 1796
	Cinacantenec	1796	Archivo General de la Nación,
	Cillacantepec	1790	Indiferente Virreinal, C. 5761, exp. 8, 1796
	Texcoco	1706	Archivo General de la Nación,
	Texcoco	1790	Indiferente Virreinal, C. 5761, exp. 11, 1796
	Actonan	1796	Archivo General de la Nación,
	Actopan	1790	Indiferente Virreinal, C. 5761, exp. 12, 1796
	Tetela del Río	1796	Archivo General de la Nación,
		1790	Indiferente Virreinal, C. 5761, exp. 13, 1796
	Tixtla Zimapan	1796	Archivo General de la Nación,
			Indiferente Virreinal, C. 5761, exp. 14, 1796
		1796	Archivo General de la Nación,
		1790	Indiferente Virreinal, C. 5761, exp. 15, 1796
	Cempoala	1796	Archivo General de la Nación,
			Indiferente Virreinal, C. 5761, exp. 16, 1796
	Tulancingo	1796	Archivo General de la Nación,
	Tulullelligo	1790	Indiferente Virreinal, C. 5761, exp. 18, 1796
	Tenango del Valle	1796	Archivo General de la Nación,
	Tenango del Valle	1790	Indiferente Virreinal, C. 5761, exp. 19, 1796
	Huichanan	1796	Archivo General de la Nación,
	Tutenapun	1790	Indiferente Virreinal, C. 5761, exp. 21, 1796–1797
	Coatepec-Chalco	1796	Archivo General de la Nación,
	Obutepee Onuteo	1790	<i>Indiferente Virreinal</i> , C. 5761, exp. 20, 1796–1799
	Intendancy of	1796	Archivo General de la Nación,
	San Luis Potosi	1, , 0	Indiferente Virreinal, C. 5761, exp. 17, 1796
	Intendancy of	1796	Archivo General de la Nación,
	Valladolid	1, , 0	Indiferente Virreinal, C. 5761, exp. 22, 1796
	Intendancy of	1796	Archivo General de la Nación,
	Veracruz	2720	Indiferente Virreinal, C. 5761, exp. 23, 1796
	Intendancy of	1796	Archivo General de la Nación,
	Guanajuato	1, 20	Indiferente Virreinal, C. 5761, exp. 24, 1796
Captaincy General	Yucatan	1795	Archivo General de la Nación,
of Yucatan	1 uvutuii	1175	Indiferente Virreinal, C. 5761, exp. 25, 1795–1796

 Table A.5: Other Pósitos Created after 1750

Notes: See Appendix Section A.2 for a description of the methodology. When there is ambiguity about the date of charter, we code the earliest date at which we found a reference to the granary. Chalco, along with Toluca, previously had an alhóndiga subordinate to Mexico City (Challú, 2007). Granaries listed under intendancy rather than district: Intendancy of San Luis Potosi in 1796, possibly in San Sebastian del Venado, Guadalcazar, or Santa Maria del Rio (*Archivo General de la Nación, Indiferente Virreinal*, C. 5761, exp. 17, 1796); intendancy of Valladolid in 1796, location unspecified (*Archivo General de la Nación, Indiferente Virreinal*, C. 5761, exp. 22, 1796); intendancy of Veracruz in 1796, possibly Cordoba, Orizaba, or Jalapa (*Archivo General de la Nación, Indiferente Virreinal, C. 5761, exp. 22*, 1796); intendancy of Guanajuato, location unspecified (*Archivo General de la Nación, Indiferente (Archivo General de la Nación, Seneral de la Nación, Indiferente Virreinal, C. 5761, exp. 22*, 1796); intendancy of Seneral, C. 5761, exp. 23, 1796); intendancy of Guanajuato, location unspecified (*Archivo General de la Nación, Indiferente Virreinal de la Nación, Indiferente Virreinal, C. 5761, exp. 24*, 1796).

### A.3 Descriptive Statistics

Table A.6:         Descriptive Statistics           Pooled Observations in Estimating Sample									
	count	mean	sd	min	p25	p50	p75	max	
Interpolated Office Prices, Silver Pesos (log)	2828	7.53	0.78	5.71	6.95	7.51	8.06	10.3	
Office Prices, Silver Pesos (log)	567	7.55	0.82	5.71	6.91	7.52	8.07	10.3	
Granary	2828	0.076	0.27	0	0	0	0	1	
Matlazahuatl (1736–1739)	737	0.049	0.22	0	0	0	0	1	
Any Epidemic	2828	0.022	0.15	0	0	0	0	1	
Post-Epidemic (5 years)	2828	0.12	0.32	0	0	0	0	1	
Post-Matlazahuatl (5 years)	2828	0.074	0.26	0	0	0	0	1	
Post-Measles (5 years)	2828	0.017	0.13	0	0	0	0	1	
Post-Smallpox (5 years)	2828	0.033	0.18	0	0	0	0	1	
Sale incl. Military Rank	2828	0.011	0.10	0	0	0	0	1	
Sale incl. Other Positions	2828	0.25	0.43	0	0	0	0.50	1	
Merit was Considered	2828	0.0025	0.050	0	0	0	0	1	
Position Bought as Future	2828	0.78	0.41	0	1	1	1	1	
Avg. PDSI	2736	0.20	1.94	-6.50	-1.18	0.25	1.47	5.8	
Reales per Maize Kg	1662	0.31	0.089	0.21	0.22	0.30	0.34	0.5	

#### Cross Section by 1750 in Estimating Sample

	count	mean	sd	min	p25	p50	p75	max
Granary by 1750	102	0.11	0.31	0	0	0	0	1
Dist. to Mexico City (log)	102	4.94	1.04	0	4.44	5.20	5.74	6.50
Malarial Zone	102	0.60	0.49	0	0	1	1	1
Surface Area (log)	102	7.77	1.18	4.68	6.89	7.95	8.60	10.1
Mine in District	102	0.25	0.44	0	0	0	1	1
City > 5k People by 1700	102	0.069	0.25	0	0	0	0	1

 Table A.7: Differences Between Districts with and without a Public Granary

	No	Granary	Granary				
					Difference	t-statistic	p-value
	Ν	Average	Ν	Average			
Dist. to Mexico City (log)	91	4.965	11	4.694	0.271	0.814	0.418
Malarial Zone	91	0.637	11	0.273	0.365	2.371	0.020
Surface Area (log)	91	7.789	11	7.636	0.153	0.405	0.686
Mine in District	91	0.253	11	0.273	-0.020	-0.142	0.887
Avg. PDSI	88	0.132	11	0.184	-0.052	-0.293	0.770
City > 5k People by 1700	91	0.022	11	0.455	-0.433	-6.262	0.000

## **B.** Additional Evidence

## B.1 Maize Prices, Epidemics, and Drought in Mexico City, 1721-1749

Iable B.I: Maize Prices, Epidemics, and Drought in Mexico City, 1/21–1/49								
	Maize Prizes (Reales/kg)							
	All Epidemics Matlazahuatl							
	Levels	First Difference	Levels	First Difference				
	(1)	(2)	(3)	(4)				
Post-Epidemic (5 years)	$0.077^{**}$							
	(0.029)							
Post-Epidemic (5 years; first difference)		0.13***						
		(0.021)						
Post-Epidemic (5 years)			$0.068^{**}$					
I we contract the second			(0.033)					
Post-Matlazahuatl (5 years; first difference)				0.091				
				(0.062)				
Avg. PDSI in Mexico City	-0.014*		-0.0093					
	(0.0071)		(0.0069)					
Avg. PDSI in Mexico City (First Difference)		-0.017***		-0 014**				
Avg. I Doi in Mexico City (I list Diletence)		(0.0052)		(0.0059)				
	0.24***	(0.0002)	0.00***	0.014				
Constant	0.26	0.0092	0.29	0.014				
	(0.016)	(0.011)	(0.020)	(0.013)				
Mean of DV	0.30	0.31	0.30	0.31				
SD of DV	0.092	0.091	0.092	0.091				
R sq.	0.24	0.46	0.16	0.26				
Observations	29	28	29	28				

## Table B.1: Maize Prices, Epidemics, and Drought in Mexico City, 1721–1749

OLS estimations. The unit-of-analysis is year. Robust standard errors in parentheses. Maize prices from Florescano (1969).

No Price Interpolation							
	Office Prices, Silver Pesos (log)						
		All Distric	to	Districts Affected			
		All Distric	.15	by	an Epiden	nic	
	(1)	(2)	(3)	(4)	(5)	(6)	
Granary	-0.34**	-0.36**	-0.72***	-0.33**	-0.32**	-1.02*	
	(0.16)	(0.14)	(0.23)	(0.16)	(0.15)	(0.57)	
	[0.078]	[0.044]	[0.0060]	[0.066]	[0.056]	[.]	
Post-Epidemic (5 years)	-0.032	-0.045	-0.039	-0.071	-0.067	0.11	
	(0.079)	(0.079)	(0.081)	(0.100)	(0.10)	(0.20)	
	[0.68]	[0.54]	[0.56]	[0.46]	[0.49]	[.]	
Post-Epidemic (5 years) $\times$ Granary	0.39**	0.38**	0.36	0.36**	0.32**	0.27	
	(0.15)	(0.16)	(0.23)	(0.17)	(0.15)	(0.30)	
	[0.023]	[0.018]	[0.13]	[0.038]	[0.035]	[.]	
Post-Epidemic + Post $\times$ Granary	0.36***	0.34***	0.32	0.29**	0.25**	0.38	
	( 0.13)	( 0.13)	( 0.22)	( 0.13)	( 0.11)	( 0.28)	
	[ 0.03]	[ 0.02]	[ 0.15]	[ 0.05]	[ 0.02]	[.]	
Controls	No	Yes	Yes	No	Yes	Yes	
Time-Invariant Controls $\times$ Year FE	No	No	Yes	No	No	Yes	
Year FE	Yes	Yes	Yes	Yes	Yes	Yes	
District FE	Yes	Yes	Yes	Yes	Yes	Yes	
Within-District Mean of DV	7.55	7.55	7.55	7.49	7.49	7.49	
Within-District SD of DV	0.32	0.32	0.32	0.32	0.32	0.32	
R sq.	0.89	0.89	0.93	0.89	0.90	0.97	
Observations	567	550	550	248	242	242	
Number of districts	102	99	99	44	43	43	

Table B.2: Epidemics and Office Prices, 1702–1750

#### **B.2** Main Results without Interpolating Office Prices

OLS estimations. See equation (2.1) for the econometric specification. The unit-of-analysis is the district-year. Controls include yearly average PDSI, whether the office was sold in addition to either military rank or another office; whether it was granted as a reward for past merits; and whether it was sold to be filled in the future. Time invariant controls include logged distance to Mexico City, malarial conditions, logged surface area, and indicators for any mine or city in the district. Standard errors (clustered at the district level) in parentheses, and wild-cluster bootstrap p-values in brackets. \*p < 0.1, \*\*p < 0.05, \*\*\*p < 0.01.

	Office Prices, Silver Pesos (log)					
	I	All District	ts	Districts Affected by Matlazahuatl		
	(1)	(2)	(3)	(4)	(5)	(6)
Granary	0.054	0.046	-0.086	0.042	0.12	-0.18
	(0.077)	(0.063)	(0.34)	(0.15)	(0.13)	(2.91)
	[0.55]	[0.57]	[.]	[0.71]	[0.49]	[.]
Post-Matlazahuatl (5 years)	-0.013	-0.031	-0.093	0.055	0.041	-0.16
	(0.043)	(0.041)	(0.067)	(0.097)	(0.085)	(1.26)
	[0.74]	[0.38]	[.]	[0.78]	[0.70]	[.]
Post-Matlazahuatl (5 years) $\times$ Granary	0.059	0.084	0.21	0.055	0.069	0.41
	(0.050)	(0.068)	(0.24)	(0.062)	(0.064)	(3.12)
	[0.18]	[0.18]	[.]	[0.32]	[0.25]	[.]
Post-Matlazahuatl + Post $\times$ Granary	0.046	0.053	0.12	0.11	0.11	0.24
	( 0.06)	(0.07)	(0.23)	( 0.12)	( 0.10)	(2.56)
	[ 0.32]	[ 0.43]	[.]	[ 0.49]	[ 0.38]	[.]
Controls	No	Yes	Yes	No	Yes	Yes
Time-Invariant Controls $\times$ Year FE	No	No	Yes	No	No	Yes
Year FE	Yes	Yes	Yes	Yes	Yes	Yes
District FE	Yes	Yes	Yes	Yes	Yes	Yes
Within-District Mean of DV	7.56	7.56	7.56	7.50	7.50	7.50
Within-District SD of DV	0.20	0.20	0.20	0.21	0.21	0.21
R sq.	0.96	0.97	0.98	0.98	0.98	1.00
Observations	335	322	322	124	124	124
Number of districts	94	91	91	36	36	36

**Table B.3:** The Matlazahuatl Epidemic of 1736–1738 and Office Prices, 1728–1750No Price Interpolation

OLS estimations. See equation (2.1) for the econometric specification. The unit-of-analysis is the district-year. Controls include yearly average PDSI, whether the office was sold in addition to either military rank or another office; whether it was granted as a reward for past merits; and whether it was sold to be filled in the future. Time invariant controls include logged distance to Mexico City, malarial conditions, logged surface area, and indicators for any mine or city in the district. Standard errors (clustered at the district level) in parentheses, and wild-cluster bootstrap p-values in brackets. \*p < 0.1, \*\*p < 0.05, \*\*\*p < 0.01.

Table B.4: Epidemics and Office Prices with Alternate Epidemic Geography, 1702–1750						
Office Prices, Silver Pesos (log)						
	All districts Affected					fected
		All district	8		by an Epid	emic
	(1)	(2)	(3)	(4)	(5)	(6)
Granary	-0.13*	-0.14**	-0.12	-0.15*	-0.15*	-0.057
	(0.072)	(0.071)	(0.14)	(0.082)	(0.080)	(0.15)
	$\{0.16\}$	$\{0.15\}$	$\{0.28\}$	$\{0.18\}$	$\{0.17\}$	$\{0.29\}$
	[0.22]	[0.16]	[0.50]	[0.19]	[0.22]	[0.73]
Post-Epidemic (5 years)	-0.013	-0.020	-0.0064	-0.022	-0.021	0.030
	(0.037)	(0.034)	(0.036)	(0.052)	(0.052)	(0.064)
	$\{0.080\}$	$\{0.074\}$	$\{0.075\}$	$\{0.11\}$	{0.11}	{0.13}
	[0.72]	[0.57]	[0.87]	[0.67]	[0.71]	[0.63]
Post-Epidemic (5 years) × Granary	0.25***	0.25***	$0.24^{***}$	0.26***	0.24***	0.26***
	(0.080)	(0.079)	(0.081)	(0.084)	(0.077)	(0.094)
	$\{0.17\}$	$\{0.17\}$	$\{0.17\}$	$\{0.18\}$	$\{0.17\}$	$\{0.18\}$
	[0.065]	[0.061]	[0.047]	[0.054]	[0.059]	[0.092]
Post-Epidemic + Post $\times$ Granary	0.24***	0.23***	0.23***	0.24***	0.22***	0.29***
	( 0.07)	( 0.07)	( 0.08)	( 0.07)	( 0.06)	( 0.10)
	$\{ 0.15 \}$	$\{ 0.15 \}$	$\{ 0.17 \}$	$\{ 0.15 \}$	$\{ 0.14 \}$	$\{ 0.20 \}$
	[ 0.05]	[ 0.06]	[ 0.07]	[ 0.04]	[ 0.04]	[ 0.05]
Controls	No	Yes	Yes	No	Yes	Yes
Time-Invariant Controls $\times$ Year FE	No	No	Yes	No	No	Yes
Year FE	Yes	Yes	Yes	Yes	Yes	Yes
District FE	Yes	Yes	Yes	Yes	Yes	Yes
Within-District Mean of DV	7.53	7.53	7.53	7.47	7.46	7.46
Within-District SD of DV	0.22	0.22	0.22	0.22	0.22	0.22
R sq.	0.90	0.90	0.91	0.89	0.90	0.92
Observations	2828	2736	2736	1273	1238	1238
Number of districts	102	99	99	44	43	43

#### B.3 Main Results for All Epidemics with Alternate Epidemic Geography

OLS estimations. See equation (2.1) for the econometric specification. The unit-of-analysis is the district-year. Controls include yearly average PDSI, whether the office was sold alongside either a military rank or another office; whether it was granted as a reward for past merit; and whether it was sold to be filled in the future. Time invariant controls include logged distance to Mexico City, malarial conditions, logged surface area, and indicators for any mine or city in the district. Standard errors (clustered at the district level) unadjusted and adjusted for degrees of freedom in parentheses and curly brackets, respectively, and wild-cluster bootstrap p-values in brackets. \*p < 0.1, \*\*p < 0.05, \*\*\*p < 0.01.

#### B.4 Main Results for All Epidemics with Spatial Clustering of Standard Errors

Epidemics spread in spatially dependent patterns. This is directly visible in our case in Figure 1, which maps the expansion of the matlazahuatl epidemic across the territory. This spatial pattern can pose empirical challenges, including bias due to spillovers and inadequate standard error estimates due the non-independent errors. In this section, we examine the spatial autocorrelation of epidemics in our sample, and present alternative standard errors that allow for spatial correlation between districts.

In Figure B.1, we present spatial correlograms of epidemic incidence between districts at difference distances from one another. The top panel considers any epidemic over the 1702–1750 period, while the lower panel focuses specifically on the matlazahuatl epidemic of 1736–1738. In both cases, there is evidence of a moderate, positive, and at some ranges significant spatial autocorrelation between districts, up to 200km of distance between them. Beyond this distance, the autocorrelation turns negative, and is estimated to be significant at standard levels for districts that are 500km apart for all epidemics, and up to 600km apart for matlazahuatl. Beyond this distance, and as the number of district dyads declines, the autocorrelation is not statistically significant.

These results provide evidence of spatial dependence in one of our main independent variables. We do not attempt to model these patterns — for example, through the inclusion of spatial lags. However, we do re-estimate the standard errors using an estimator that allow for spatial correlation between districts in addition to serial correlation within districts. Specifically, we use an approach described by Conley (2008) and Hsiang (2010).

The results are presented in Tables B.5 and B.6. In both the full sample of epidemics, as well as the analysis of the matlazahuatl epidemic of 1736–1738, the results are unchanged. In the aftermath of epidemics, the sales price of office does not change for most districts — or, the case of the matlazahuatl epidemic it increases slightly— but markedly increases for districts with a public granary.



Figure B.1: Spatial Correlation of Epidemics: Spatial Correlograms

(b) The Matlazahuatl Epidemic

The figures present the spatial correlation between epidemic incidence over the period of analysis as distance between districts increases up to the maximum distance in the sample. The **upper** panel refers to an indicator for any epidemic over the period 1702–1750, and the **lower** panel to indicator for the matlazahuatl epidemic of 1736–1738. The histogram presents the distribution of the number of district dyads by distance.

	Office Prices, Silver Pesos (log)						
	I	All district	s	Districts Affected by an Epidemic			
	(1)	(2)	(3)	(4)	(5)	(6)	
Granary	-0.13* (0.075)	-0.14* (0.075)	-0.12 (0.13)	-0.15* (0.083)	-0.15* (0.081)	-0.060 (0.13)	
Post-Epidemic (5 years)	-0.0080 (0.038)	-0.013 (0.038)	-0.0025 (0.039)	-0.0094 (0.048)	-0.0087 (0.049)	0.047 (0.053)	
Post-Epidemic (5 years) $\times$ Granary	0.25 <sup>***</sup> (0.077)	0.25 <sup>***</sup> (0.078)	0.23 <sup>***</sup> (0.076)	0.25 <sup>***</sup> (0.076)	0.24 <sup>***</sup> (0.070)	0.25 <sup>***</sup> (0.081)	
Post-Epidemic + Post $\times$ Granary	0.24*** ( 0.07)	0.23*** ( 0.07)	0.23*** ( 0.08)	0.24*** ( 0.07)	0.23*** ( 0.06)	0.30*** ( 0.09)	
Controls Time-Invariant Controls $ imes$ Year FE	No No	Yes No	Yes Yes	No No	Yes No	Yes Yes	
Year FE	Yes	Yes	Yes	Yes	Yes	Yes	
District FE	Yes	Yes	Yes	Yes	Yes	Yes	
Observations	2828	2736	2736	1273	1238	1238	
Number of districts	102	99	99	44	43	43	

**Table B.5:** Epidemics and Office Prices, 1702–1750Spatial Clusterng of Standard Errors

OLS estimations. See equation (2.1) for the econometric specification. The unit-of-analysis is the district-year. Controls include average PDSI, whether the sale included a military rank or another office; whether it was granted as a reward for past merit; and whether it was sold to be filled in the future. Time invariant controls include logged distance to Mexico City, malarial conditions, logged surface area, and indicators for any mine or city in the district. Standard errors (that allow for serial correlation within districts and spatial correlation between districts within 500 km from each other) in parentheses. \*p < 0.1, \*\*p < 0.05, \*\*\*p < 0.01.

	Office Prices, Silver Pesos (log)					
	1	All district	S	Districts Affected by Matlazahuatl		
	(1)	(2)	(3)	(4)	(5)	(6)
Granary	-0.027 (0.027)	-0.029 (0.026)	-0.087 (0.065)	-0.066** (0.033)	-0.062* (0.033)	-0.098 (0.084)
Post-Matlazahuatl (5 years)	0.027 (0.026)	0.020 (0.026)	0.033 (0.029)	$0.042^{**}$ (0.018)	$0.037^{**}$ (0.018)	0.021 (0.018)
Post-Matlazahuatl (5 years) $\times$ Granary	$0.089^{*}$ (0.048)	$0.091^{*}$ (0.049)	0.10 <sup>**</sup> (0.048)	0.091* (0.047)	$0.089^{*}$ (0.049)	0.067 (0.053)
Post-Epidemic + Post $\times$ Granary	0.12*** ( 0.05)	0.11** ( 0.05)	0.14*** ( 0.05)	0.13*** ( 0.05)	0.13*** ( 0.05)	0.09** ( 0.05)
Controls	No	Yes	Yes	No	Yes	Yes
Time-Invariant Controls $ imes$ Year FE	No	No	Yes	No	No	Yes
Year FE	Yes	Yes	Yes	Yes	Yes	Yes
District FE	Yes	Yes	Yes	Yes	Yes	Yes
Observations	1693	1631	1631	651	651	651
Number of districts	94	91	91	36	36	36

# **Table B.6:** The Matlazahuatl Epidemic of 1736–1738 and Office Prices, 1728–1750Spatial Clusterng of Standard Errors

OLS estimations. See equation (2.1) for the econometric specification. The unit-of-analysis is the district-year. Controls include average PDSI, whether the sale included a military rank or another office; whether it was granted as a reward for past merit; and whether it was sold to be filled in the future. Time invariant controls include logged distance to Mexico City, malarial conditions, logged surface area, and indicators for any mine or city in the district. Standard errors (that allow for serial correlation within districts and spatial correlation between districts within 600 km from each other) in parentheses. \*p < 0.1, \*\*p < 0.05, \*\*\*p < 0.01.

Table B.7: Epidemics and Office Prices, 1702–1750						
		Offi	ce Prices, S	Silver Pesos	s (log)	
	All districts Districts Affected				cted	
		All district	3	b	y an Epider	mic
	(1)	(2)	(3)	(4)	(5)	(6)
Granary	-0.13	-0.14**	-0.12	-0.15*	-0.15*	-0.060
	(.)	(0.063)	(0.14)	(0.076)	(0.068)	(0.15)
	{0.13}	{0.13}	$\{0.28\}$	$\{0.16\}$	$\{0.14\}$	{0.29}
	[0.090]	[0.095]	[0.51]	[0.15]	[0.12]	[0.72]
Post-Epidemic (5 years)	-0.0080	-0.013	-0.0025	-0.0094	-0.0087	0.047
	(.)	(0.039)	(0.032)	(0.050)	(0.052)	(0.044)
	$\{0.087\}$	{0.083}	$\{0.065\}$	$\{0.10\}$	$\{0.11\}$	$\{0.085\}$
	[0.87]	[0.75]	[0.94]	[0.84]	[0.87]	[0.31]
Post-Epidemic (5 years) $\times$ Granary	0.25	0.25**	0.23**	0.25**	$0.24^{**}$	$0.25^{**}$
	(.)	(0.088)	(0.096)	(0.092)	(0.087)	(0.098)
	{0.19}	{0.19}	{0.19}	{0.19}	$\{0.18\}$	{0.19}
	[0.11]	[0.11]	[0.11]	[0.10]	[0.11]	[0.096]
Post-Epidemic + Post $\times$ Granary	0.24	0.23***	0.23***	0.24***	0.23***	0.30***
	(.)	( 0.07)	( 0.09)	( 0.07)	(0.07)	( 0.10)
	$\{ 0.15 \}$	$\{ 0.15 \}$	{ 0.19}	$\{ 0.16 \}$	$\{ 0.14 \}$	{ 0.19}
	[ 0.06]	[ 0.05]	[ 0.11]	[ 0.06]	[ 0.07]	[ 0.06]
Controls	No	Yes	Yes	No	Yes	Yes
Time-Invariant Controls $\times$ Year FE	No	No	Yes	No	No	Yes
Year FE	Yes	Yes	Yes	Yes	Yes	Yes
District FE	Yes	Yes	Yes	Yes	Yes	Yes
Within-District Mean of DV	7.53	7.53	7.53	7.47	7.46	7.46
Within-District SD of DV	0.22	0.22	0.22	0.22	0.22	0.22
R sq.	0.90	0.90	0.91	0.89	0.90	0.92
Observations	2828	2736	2736	1273	1238	1238
Number of districts	17	17	17	13	13	13

#### B.5 Main Results for All Epidemics with Clustered Standard Errors at the State Level

OLS estimations. See equation (2.1) for the econometric specification. The unit-of-analysis is the district-year. Controls include yearly average PDSI, whether the office was sold in addition to either military rank or another office; whether it was granted as a reward for past merits; and whether it was sold to be filled in the future. Time invariant controls include logged distance to Mexico City, malarial conditions, logged surface area, and indicators for any mine or city in the district. Standard errors (clustered at the district level) unadjusted and adjusted for degrees of freedom in parentheses and curly brackets, respectively, and wild-cluster bootstrap p-values in brackets. \* p < 0.1, \*\*p < 0.05, \*\*\*p < 0.01.

Table B.8: Epidemics and Office Prices (Excluding Mexico City), 1702–1750						
	Office Prices, Silver Pesos (log)					
		All district		Districts Affected		
		All district	5	1	oy an Epide	emic
	(1)	(2)	(3)	(4)	(5)	(6)
Granary	-0.14*	-0.14*	-0.11	-0.15*	-0.15*	-0.057
	(0.074)	(0.074)	(0.12)	(0.085)	(0.084)	(0.14)
	{0.16}	{0.16}	$\{0.25\}$	{0.19}	$\{0.18\}$	$\{0.27\}$
	[0.19]	[0.19]	[0.47]	[0.23]	[0.21]	[0.70]
Post-Epidemic (5 years)	-0.0068	-0.012	0.0033	-0.0052	-0.0045	0.046
	(0.040)	(0.040)	(0.040)	(0.052)	(0.053)	(0.062)
	$\{0.087\}$	$\{0.086\}$	$\{0.084\}$	$\{0.11\}$	{0.11}	$\{0.12\}$
	[0.87]	[0.80]	[0.95]	[0.92]	[0.94]	[0.46]
Post-Epidemic (5 years) $\times$ Granary	0.26***	0.26**	0.28***	0.27***	$0.24^{***}$	$0.27^{***}$
	(0.097)	(0.099)	(0.092)	(0.096)	(0.088)	(0.098)
	$\{0.21\}$	$\{0.21\}$	{0.19}	{0.21}	{0.19}	$\{0.19\}$
	[0.11]	[0.12]	[0.041]	[0.10]	[0.11]	[0.11]
Post-Epidemic + Post $ imes$ Granary	0.25***	0.24***	0.28***	0.26***	0.24***	0.32***
	( 0.09)	( 0.09)	( 0.09)	( 0.09)	( 0.08)	( 0.10)
	{ 0.19}	$\{ 0.20 \}$	$\{ 0.18 \}$	{ 0.19}	$\{ 0.18 \}$	$\{ 0.20 \}$
	[ 0.10]	[ 0.12]	[ 0.06]	[ 0.05]	[ 0.05]	[ 0.04]
Controls	No	Yes	Yes	No	Yes	Yes
Time-Invariant Controls $\times$ Year FE	No	No	Yes	No	No	Yes
Year FE	Yes	Yes	Yes	Yes	Yes	Yes
District FE	Yes	Yes	Yes	Yes	Yes	Yes
Within-District Mean of DV	7.51	7.50	7.50	7.42	7.40	7.40
Within-District SD of DV	0.22	0.22	0.22	0.22	0.22	0.22
R sq.	0.89	0.90	0.91	0.86	0.87	0.90
Observations	2793	2701	2701	1238	1203	1203
Number of districts	101	98	98	43	42	42

#### B.6 Main Results for All Epidemics Excluding Mexico City

OLS estimations. See equation (2.1) for the econometric specification. The unit-of-analysis is the district-year. Controls include yearly average PDSI, whether the office was sold alongside either a military rank or another office; whether it was granted as a reward for past merit; and whether it was sold to be filled in the future. Time invariant controls include logged distance to Mexico City, malarial conditions, logged surface area, and indicators for any mine or city in the district. Standard errors (clustered at the district level) unadjusted and adjusted for degrees of freedom in parentheses and curly brackets, respectively, and wild-cluster bootstrap p-values in brackets. \*p < 0.1, \*\*p < 0.05, \*\*\*p < 0.01.

#### Event Study Graphs with Unadjusted and Wild Cluster Bootstrap Confidence Intervals **B.**7



Figure B.2: The Matlazahuatl Epidemic of 1736-1738 and Office Prices

(a) Districts with Granary

(b) Districts without Granary

The figures display the point estimates and cluster-adjusted 95% confidence intervals from an event study estimation including districts and year fixed effects. The initial lead is equal to 1 for every year prior to five years before the onset of matlazahuatl, and the final lag is equal to 1 for every year beginning with the fifth year after matlazahuatl. The omitted category corresponds to the year before matlazahuatl and includes non-affected districts.





(a) Districts with Granary

(b) Districts without Granary

The figures display the point estimates and 95% wild cluster bootsrap confidence intervals from an event study estimation that includes districts and year fixed effects. The initial lead is equal to 1 for every year prior to five years before the onset of matlazahuatl, and the final lag is equal to 1 for every year beginning with the fifth year after matlazahuatl. The omitted category corresponds to the year before matlazahuatl and includes non-affected districts.

#### B.8 Main Results with Maize Suitability

In this appendix section, we further investigate the mechanism that we argue drove the differential rise in office prices in granary-containing districts: the *alcalde*'s ability to manipulate local grain markets through forcing smallholders to sell at below market rate, making deals with largeholders to overcharge the Crown for grain during crises, and co-opting the *repartimiento* to monopolize the sale and distribution of goods harvested in indigenous communities. While the ability to take advantage of these powers was likely to have been greater in districts with a granary, where grain was purchased and stored for a large population, *alcaldes* in other districts that were well suited to growing maize may also have been able to capitalize on food scarcity in the aftermath of epidemics through similar mechanisms.

In Tables B.9 and B.10, we replicate our main analyses using a measure of district-level average maize suitability in place of the granary indicator. The parameter of interest is the interaction between the maize suitability indicator and the post-epidemic indicator term. A positive coefficient would imply a differential increase (or smaller decrease) in the price of office in high-suitability relative to low-suitability places. A few cautions are warranted. The suitability measure, the log space-weighted average of maize potential productivity from the Food and Agriculture Organization's Global Agro-Ecological Zones database, records the potential yield of rain-fed, low-input maize based on current climate and soil conditions. While soil quality changes in geological time, there have been changes in both climate conditions and standard varieties of maize since the 18th century. This measure also does not record where maize was actually grown during this period or where markets for grain would have been most developed given population density and land use.

However, the analysis provides some additional suggestive evidence of officials extracting rents through manipulating grain markets in the wake of crisis. Both using the full panel of epidemics (B.9) and focusing on the matlazahuatl outbreak in the 1730s (B.9), the coefficient on the interaction between maize suitability and the post-epidemic indicator is positive, implying a lower decline in the price of office in areas of high maize suitability in the aftermath of epidemics.

	Office Prices, Silver Pesos (log)							
		All districts		Dis	Districts Affected			
	1	All districts		by an Epidemic				
	(1)	(2)	(3)	(4)	(5)	(6)		
Post-Epidemic (5 years)	-0.013	-0.0089	-0.070	-0.020	-0.0080	-0.0046		
	(0.060)	(0.060)	(0.10)	(0.067)	(0.066)	(0.11)		
	{0.13}	{0.13}	$\{0.21\}$	$\{0.14\}$	$\{0.14\}$	$\{0.22\}$		
	[0.82]	[0.88]	[0.52]	[0.78]	[0.93]	[0.96]		
Post-Matlazahuatl (5 years)	0.0089	0.0068	0.018	$0.016^{*}$	0.012	0.020		
imes Maize Potential Yield (log)	(0.0085)	(0.0087)	(0.016)	(0.0086)	(0.0082)	(0.016)		
	{0.018}	{0.019}	{0.033}	{0.019}	$\{0.018\}$	{0.031}		
	[0.30]	[0.43]	[0.30]	[0.074]	[0.16]	[0.26]		
Controls	No	Yes	Yes	No	Yes	Yes		
Time-Invariant Controls $\times$ Year FE	No	No	Yes	No	No	Yes		
Year FE	Yes	Yes	Yes	Yes	Yes	Yes		
District FE	Yes	Yes	Yes	Yes	Yes	Yes		
Within-District Mean of DV	7.53	7.53	7.53	7.47	7.46	7.46		
Within-District SD of DV	0.22	0.22	0.22	0.22	0.22	0.22		
R sq.	0.90	0.90	0.91	0.89	0.90	0.92		
Observations	2828	2736	2736	1273	1238	1238		
Number of districts	102	99	99	44	43	43		

### Table B.9: Epidemics, Maize Suitability, and Office Prices, 1702–1750

OLS estimations. See equation (2.1) for the econometric specification. The unit of analysis is the district-year. Controls include average PDSI, whether the sale included a military rank or another office; whether it was granted as a reward for past merit; and whether it was sold to be filled in the future. Time invariant controls include logged distance to Mexico City, malarial conditions, logged surface area, and indicators for any mine or city in the district. Standard errors (clustered at the district level) unadjusted and adjusted for degrees of freedom in parentheses and curly brackets, respectively, and wild-cluster bootstrap p-values in brackets. \*p < 0.1, \*\*p < 0.05, \*\*\*p < 0.01.

	Office Prices, Silver Pesos (log)						
	1	All districts	6	Districts Affected			
				by Matlazahuatl			
	(1)	(2)	(3)	(4)	(5)	(6)	
Post-Matlazahuatl (5 years)	-0.50*	-0.51**	-0.79**	-0.50*	-0.54**	-0.52	
	(0.26)	(0.25)	(0.32)	(0.26)	(0.25)	(0.44)	
	$\{0.56\}$	$\{0.54\}$	$\{0.67\}$	$\{0.56\}$	$\{0.53\}$	$\{0.84\}$	
	[0.091]	[0.075]	[0.021]	[0.098]	[0.045]	[0.24]	
Post-Matlazahuatl (5 years)	0.066**	0.066**	$0.10^{**}$	0.068**	$0.072^{**}$	0.068	
imes Maize Potential Yield (log)	(0.032)	(0.031)	(0.040)	(0.032)	(0.031)	(0.053)	
	$\{0.068\}$	$\{0.066\}$	$\{0.083\}$	$\{0.070\}$	$\{0.066\}$	$\{0.10\}$	
	[0.077]	[0.064]	[0.011]	[0.066]	[0.034]	[0.20]	
Controls	No	Yes	Yes	No	Yes	Yes	
Time-Invariant Controls $\times$ Year FE	No	No	Yes	No	No	Yes	
Year FE	Yes	Yes	Yes	Yes	Yes	Yes	
District FE	Yes	Yes	Yes	Yes	Yes	Yes	
Within-District Mean of DV	7.53	7.52	7.52	7.50	7.50	7.50	
Within-District SD of DV	0.13	0.13	0.13	0.13	0.13	0.13	
R sq.	0.97	0.97	0.97	0.97	0.97	0.98	
Observations	1693	1631	1631	651	651	651	
Number of districts	94	91	91	36	36	36	

Table B.10: The Matlazahuatl Epidemic of 1736–1738, M	aize Suitability, and Office Prices, 1728-1750
	$\hat{\mathbf{T}}_{\text{res}}$ Drives (1-r)

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OLS estimations. See equation (2.1) for the econometric specification. The unit-of-analysis is the district-year. Controls include average PDSI, whether the sale included a military rank or another office; whether it was granted as a reward for past merit; and whether it was sold to be filled in the future. Time invariant controls include logged distance to Mexico City, malarial conditions, logged surface area, and indicators for any mine or city in the district. Standard errors (clustered at the district level) unadjusted and adjusted for degrees of freedom in parentheses and curly brackets, respectively, and wild-cluster bootstrap p-values in brackets. \*p < 0.1, \*\*p < 0.05, \*\*\*p < 0.01.

#### C. Appendix References

- 1780. Este plano manifiesta la ubicación, extensión, vientos y distancias de todos los curatos que se comprenden en este Reyno de la Nueva Galicia. Archivo General de Indias, Mapas y Planos, Mexico, 360.
- Aboites, Luis. 1994. Breve historia de Chihuahua. Fondo De Cultura Económica.
- Orozco y Berra, Manuel. 1938. *Historia de la dominación española en México*, vol. IV. Antigua Librería Robredo de José Porrúa e Hijos.
- Castro Aranda, Hugo. 2010. Primer censo de la Nueva España 1790. Censo de Revillagigedo, "un censo condenado". INEGI.
- Cavo, Andrés. 1949. Historia de México. Editorial Patria.
- Challú, Amílcar E. 2007. Grain Markets, Food Supply Policies and Living Standards in Late Colonial Mexico. Ph.D. thesis, Harvard University.
- Conley, Timothy G. 2008. Spatial Econometrics. In *New palgrave dictionary of economics*, ed. Steven N. Durlauf and Lawrence E. Blume, 741–747. Palgrave Macmillan.
- Cruz Domínguez, Silvana Elisa. 2016. *Organización socioeconómica en el distrito minero de Pachuca (siglos XVII XVIII)*. Universidad Autónoma del Estado de México.
- Florescano, Enrique. 1969. *Precios del maíz y crisis agrícolas en México (1708–1810)*. México, DF: El Colegio de México.
- García Acosta, Virginia, Juan Manuel Pérez Zevallos, and América Molina del Villar. 2003. *Desastres agrícolas en México: catálogo histórico*. CIESAS.
- Gerhard, Peter. 1993a. A Guide to the Historical Geography of New Spain: Revised Edition. University of Oklahoma Press.
- --. 1993b. *The North Frontier of New Spain*. Norman, OK: University of Oklahoma Press.
- Gibson, Charles. 1964. *The Aztecs Under Spanish Rule: A History of the Indians of the Valley of Mexico, 1519-1810.* Palo Alto, CA: Stanford University Press.
- Gordo Peláez, Luis. 2013. "A Palace for the Maize": The Granary of Granaditas in Guanajuato and Neoclassical Civic Architecture in Colonial Mexico. *RACAR* : *Revue d'art canadienne* 38(2):71–89.
- Guedea, Virginia. 1991. Las gacetas de México y la medicina: un índice. UNAM.

- Hernández Soubervielle, José Armando. 2012. Sin un lugar para pernoctar en "la garganta de Tierra Adentro": Los mesones en San Luis Potosí. *Relaciones Estudios de Historia y Sociedad* 33(132b).
- Hsiang, Salomon M. 2010. Temperatures and Cyclones Strongly Associated with Economic Production in the Caribbean and Central America. *Proceedings of the National Academy of Sciences* 107(35):15367–15372.
- Humboldt, Alexander von. 1973. Tablas geográficas-políticas del reino de Nueva España. In *Descripciones económicas generales de nueva españa*, 1784-1817, ed. Enrique Florescano and Isabel Gil. INAH.
- Islas Jiménez, Celia. 1994. El abasto de maíz en Tlalpujahua: pósito y alhóndiga. *Dimensión Antropológica* 2(septiembre-diciembre):57–70.
- Leicht, Hugo. 2017. Las Calles de Puebla. 7th ed. Gobierno del Estado de Puebla.
- de León Meza, René. 2016. La administración del comercio de Guadalajara a finales del siglo XVI. *Estudios Jalicienses* 103.
- Lorenzana, Antonio. 1770. Historia de Nueva España. Imprenta del Br. D. Joseph Antonio de Hogal.
- Malvido, Elsa. 1973. Factores de despoblación y de reposición de la población de Cholula (1641-1810). *Historia Mexicana* 23(1):52–110.
- —-. 1982. Cronología de epidemias y crisis agrícolas en la época colonial. In *Ensayos sobre la historia de las epidemias en méxico*, ed. Enrique Florescano and Elsa Malvido, vol. I, 179–197. México, DF: Instituto Mexicano de Seguridad Social.
- Morin, Claude. 1979. *Michoacán en la Nueva España del siglo XVIII: crecimiento y desigualdad en una economía colonial.* Fondo de Cultura Económica.
- Cabrera y Quintero, Cayetano. 1746. *Escudo de Armas de Mexico*. Imprenta de la viuda de D. Joseph Bernardo de Hogal.
- Román, José Francisco, José Manuel Martín Ornelas, and Antonio Ramírez Ramos. 1997. Mazapil a finales del siglo XVIII: un acercamiento a su población. *Estudios del Hombre* (6):219–237.

Sánchez Santiró, Ernest. 2003. Padrón del Arzobispado de México 1777. Secretaría de Gobernación.

Sedano, Francisco. 1880. Noticias de México, vol. II. J. R. Barbedillo y Ca.

- Acuña Soto, Rodolfo. 2017. Cronología de epidemias y levantamientos indígenas en el norte de México y sur de los Estados Unidos, 1529-1900. *Manuscript*.
- Stangl, Werner. 2019. Demographic data, 1701-1808. Harvard Dataverse.
- Urquiola Permisán, José Ignacio. 2006. La Alhóndiga de Querétaro. In *El heraldo de navidad 2006*, 51–62.
- Van Young, Eric. 1981. *Hacienda and Market in Eighteenth-Century Mexico: The Guadalajara Region*, 1675–1820. Univ of California Press.
- Vila Vilar, Enriqueta, and María Justina Sarabia Viejo. 1985. *Cartas de cabildos hispanoamericanos: Siglos XVI y XVII*. Editorial CSIC.
- Molina del Villar, América. 2001. *La Nueva España y el matlazahuatl, 1736-1739*. El Colegio de Michoacán.
- Vásquez de Warman, Irene. 1968. El pósito y la alhóndiga en la Nueva España. *Historia Mexicana* 17(3):395–426.