

ONLINE APPENDIX

Title: “THE NEIGHBORHOOD IMPACTS OF LOCAL INFRASTRUCTURE INVESTMENT: EVIDENCE FROM URBAN MEXICO”.

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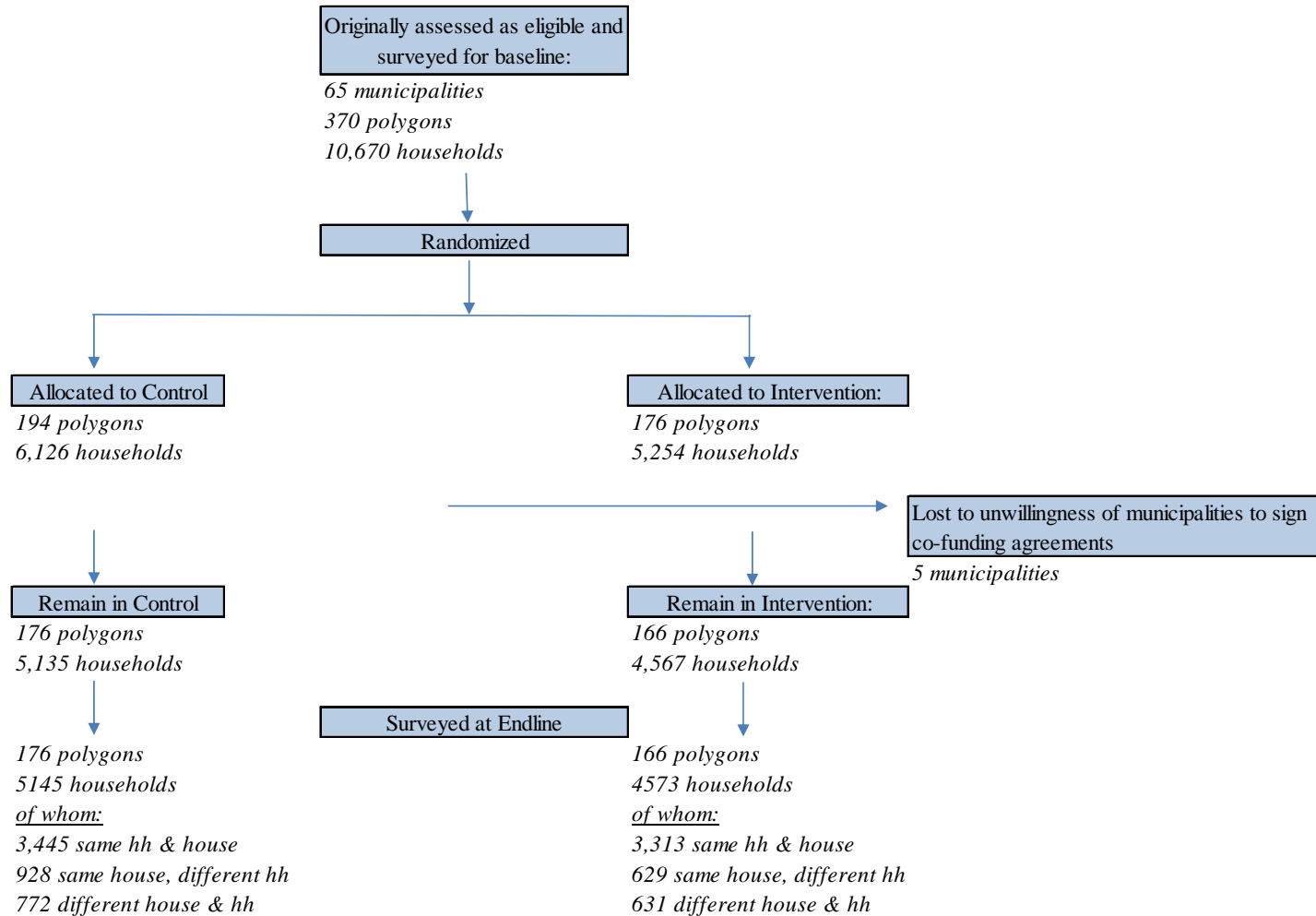
Appendix Tables.

Total Investments in Treatment Polygons, 2009-2011 (US Dollars)

Name of Program (Subprogram)	2009-2011				Households Benefitted
	Total Investment	Federal	State	Municipal	
Social and Community Development	13,922,853	7,026,328	373,053	6,523,472	256,443
Improvement of Urban Environment:	53,729,286	26,359,409	4,978,304	20,857,825	169,607
Paving	32,850,121	15,905,294	3,586,772	12,246,184	43,054
Sewers	4,877,761	2,465,322	301,398	2,047,825	7,672
Drinking water	2,644,150	1,320,621	93,867	1,160,632	5,071
Community Development Centers	2,842,852	1,397,310	198,192	1,160,519	17,536
Sidewalks and medians	2,459,935	1,300,516	260,256	830,340	4,447
Public lighting	1,752,960	881,141	30,248	824,506	5,327
Trash collection	1,801,580	915,702	63,868	767,860	72,370
Total spending	67,743,983	33,431,659	5,364,410	27,414,167	428,590

Source: SEDESOL

State	Municipality	# Treated Polygons	# Control Polygons	Municipality Area ('000 sq meters)	Area of Study Polygons ('000 sq meters)	Municipality Population, 2010	Study Population, 2008	Municipal Infrastructure Expenditure, 2008 ('000 USD)	Total Habitat Expenditure ('000 USD)
BAJA CALIFORNIA	MEXICALI	1	4	15,800,000	1,294	936,826	6,553	10,672	392
BAJA CALIFORNIA	TIJUANA	13	2	1,252,141	6,349	1,600,000	33,928	29,560	2,175
CAMPECHE	CARMEN	1	3	8,544,727	884	221,094	7,827	21,316	258
CHIAPAS	TUXTLA GUTIERREZ	1	2	335,852	373	553,374	5,383	22,772	837
CHIHUAHUA	JUAREZ	5	6	3,577,673	3,168	1,300,000	21,592	20,226	1,930
COAHUILA	TORREON	3	3	1,269,844	1,031	639,629	6,865	36,064	977
DISTRITO FEDERAL	GUSTAVO A. MADERO	5	1	87,378	802	1,200,000	15,706	30,048	358
DISTRITO FEDERAL	IZTAPALAPA	3	2	112,537	609	1,800,000	16,375	59,238	22
DISTRITO FEDERAL	TLAHUAC	1	3	85,374	1,677	360,265	10,104	8,651	64
DISTRITO FEDERAL	TLALPAN	3	2	312,853	3,934	650,567	9,657	22,791	8
GUANAJUATO	IRAPUATO	2	3	843,862	2,092	529,440	9,655	17,770	355
GUANAJUATO	LEON	4	1	1,210,431	1,190	1,400,000	11,328	93,823	1,121
GUANAJUATO	SILAO	6	1	533,745	1,843	173,024	15,524	16,819	909
GUANAJUATO	URIANGATO	1	2	115,477	801	59,305	4,186	5,486	248
GUERRERO	ACAPULCO DE JUAREZ	3	8	1,731,309	11,166	789,971	13,182	64,135	2,635
GUERRERO	COYUCA DE BENITEZ	4	1	1,813,171	3,916	73,460	3,823	6,014	1,964
JALISCO	EL SALTO	3	2	81,113	1,580	138,226	6,831	4,041	943
JALISCO	PUERTO VALLARTA	2	2	675,114	1,433	255,681	6,991	8,462	799
JALISCO	TLAJOMULCO DE ZU-IC	1	3	708,215	1,706	416,626	8,539	12,570	391
JALISCO	TLAQUEPAQUE	1	1	117,192	527	608,114	2,482	10,544	172
JALISCO	TONALA	1	5	164,881	1,945	478,689	9,791	4,538	184
JALISCO	ZAPOPAN	2	1	1,146,319	1,363	1,200,000	9,503	64,267	1,302
MEXICO	ATIZAPAN DE ZARAGC	1	2	92,283	4,202	489,937	14,236	37,757	226
MEXICO	CHALCO	2	3	224,017	2,676	310,130	9,324	5,765	343
MEXICO	CHIMALHUACAN	5	1	54,136	2,278	614,453	18,909	19,124	3,122
MEXICO	IXTAPALUCA	6	1	322,192	9,986	467,361	23,081	9,887	3,363
MEXICO	NAUCALPAN DE JUARI	4	4	156,997	4,538	833,779	21,988	16,748	1,420
MEXICO	NEZAHUALCOYOTL	2	1	62,900	444	1,100,000	13,321	19,748	1,357
MEXICO	NICOLAS ROMERO	5	8	231,117	4,216	366,602	24,583	8,766	1,178
MEXICO	TECAMAC	5	1	155,849	2,917	364,579	11,247	4,618	3,345
MEXICO	TLALNEPANTLA DE B ^A	2	1	79,861	1,249	664,225	7,514	23,305	667
MEXICO	TOLUCA	5	11	425,728	6,977	819,561	29,699	20,912	871
MEXICO	TULITLAN	1	3	70,383	7,687	524,074	19,728	13,727	542
MICHOACAN	HIDALGO	1	3	1,136,247	1,384	117,620	3,768	5,010	227
MICHOACAN	LAZARO CARDENAS	4	1	1,147,958	1,215	178,817	5,410	12,929	328
MICHOACAN	URUAPAN	4	1	1,006,986	1,639	315,350	8,588	3,848	1,386
MICHOACAN	ZAMORA	4	1	332,630	1,800	186,102	9,685	6,024	1,464
MORELOS	EMILIANO ZAPATA	1	1	67,994	1,013	83,485	2,299	8,069	813
MORELOS	JIUTEPEC	1	1	55,714	1,231	196,953	6,687	8,093	340
MORELOS	XOCHITEPEC	1	2	92,841	4,086	63,382	6,498	3,171	466
NUEVO LEON	GRAL. ESCOBEDO	1	1	147,540	1,015	357,937	3,267	15,368	603
NUEVO LEON	JUAREZ	1	1	244,928	419	256,970	3,418	6,219	291
NUEVO LEON	MONTERREY	1	2	321,680	349	1,100,000	4,315	92,465	115
PUEBLA	ATLIXCO	2	3	291,907	1,573	127,062	6,929	6,929	621
PUEBLA	CUAUTLANCINGO	1	2	37,982	542	79,153	3,593	2,854	208
PUEBLA	HUEJOTZINGO	1	1	172,057	674	63,457	4,832	2,273	783
PUEBLA	PUEBLA	5	15	544,715	14,232	1,500,000	41,121	45,540	5,463
PUEBLA	SAN ANDRES CHOLUL	2	1	58,380	677	100,439	3,216	2,851	832
PUEBLA	SAN PEDRO CHOLULA	4	2	76,528	1,943	120,459	4,618	5,055	1,248
QUINTANA ROO	BENITO JUAREZ	1	12	2,089,925	2,349	661,176	25,787	5,957	665
SINALOA	CULIACAN	2	4	6,238,984	1,914	858,638	7,725	32,205	194
SINALOA	MAZATLAN	5	2	2,505,102	973	438,434	8,211	16,133	715
SONORA	HERMOSILLO	1	6	16,900,000	2,465	784,342	9,872	16,428	3,902
TAMAULIPAS	MATAMOROS	6	1	4,588,934	1,650	489,193	7,216	21,768	2,338
TAMAULIPAS	REYNOSA	5	6	3,117,632	2,624	608,891	12,457	34,241	2,289
TAMAULIPAS	RIO BRAVO	1	1	1,568,817	619	118,259	2,720	9,472	74
VERACRUZ	COATEPEC	1	3	201,130	1,590	86,696	6,623	6,133	407
VERACRUZ	CORDOBA	1	4	159,129	1,111	196,541	8,542	8,384	568
VERACRUZ	TUXPAM	3	2	955,789	1,065	143,362	4,685	8,380	639
YUCATAN	MERIDA	2	3	875,531	881	830,732	6,332	47,800	449
Totals:		166	176	87,331,730	147,884	32,002,442	647,867	1,176,831	61,905
				Study % area: 0.17%		Study % pop: 2.02%		Study % spending: 5.26%	



PANEL A: Public Infrastructure:

	Index of Basic Infrastructure			Piped Water			Sewerage Service			Electric Lighting			Street Lights			Medians			Sidewalks			Paved Roads		
	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers
Baseline household had moved in R2	-0.0308 (0.046)			-0.00923 (0.006)			0.00238 (0.010)			-0.00072 (0.002)			0.0472*** (0.015)			-0.00861 (0.013)			-0.0153 (0.014)			0.00405 (0.014)		
Treatment * R2		0.121** (0.058)	0.134 (0.088)	-0.00096 (0.018)	-0.0023 (0.019)		0.0146 (0.019)	0.0146 (0.018)		-0.0003 (0.004)	0.00898 (0.008)		0.052 (0.034)	0.0713 (0.066)		0.0620** (0.024)	0.0513 (0.038)		0.0440* (0.025)	0.0475 (0.036)		0.0390** (0.018)	0.0138 (0.020)	
Treatment dummy		-0.900*** (0.029)	-3.192*** (0.044)	-0.0743*** (0.009)	-0.164*** (0.009)		-0.569*** (0.009)	-0.575*** (0.009)		-0.0419*** (0.002)	-0.00449 (0.004)		0.200*** (0.017)	-0.392*** (0.031)		-0.606*** (0.012)	-0.906*** (0.019)		-0.627*** (0.012)	-0.981*** (0.018)		-0.957*** (0.009)	-0.953*** (0.010)	
R2 dummy		0.182*** (0.048)	0.0999 (0.081)	0.0222** (0.011)	-0.0057 (0.006)		0.0476*** (0.010)	-0.0128 (0.023)		0.00587** (0.003)	0.00623 (0.006)		-0.0028 (0.027)	-0.025 (0.054)		0.0326* (0.018)	0.0249 (0.031)		0.0519*** (0.013)	0.0298 (0.030)		0.0650*** (0.016)	0.0687*** (0.016)	
Observations	9,714	13,501	5,915	9,715	13,502	5,915	9,715	13,502	5,915	9,715	13,502	5,915	8,604	12,778	5,528	9,715	13,502	5,915	9,715	13,502	5,915	9,714	13,501	5,915
R-squared	0.4	0.393	0.45	0.412	0.326	0.429	0.538	0.519	0.522	0.129	0.061	0.107	0.184	0.146	0.159	0.38	0.355	0.398	0.393	0.382	0.443	0.37	0.382	0.414

PANEL B: Investment variables:

	Brick Walls			Concrete Floors			Separate Kitchen			Separate Bathroom			Flush Toilet			Septic System			Piped Water			Home Owner		
	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers	all	stayers	movers
Baseline household had moved in R2	-0.00364 (0.008)			-0.00693 (0.004)			-0.0313*** (0.010)			-0.0116* (0.007)			0.0187 (0.023)			-0.00661 (0.010)			0.0153 (0.014)			-0.184*** (0.018)		
Treatment * R2		0.0078 (0.010)	-0.00806 (0.019)	0.0144** (0.007)	0.0408* (0.022)		0.0191 (0.016)	-0.00617 (0.025)		-0.0001 (0.015)	0.00486 (0.021)		0.0409 (0.033)	0.122** (0.053)		-0.0311* (0.017)	-0.0153 (0.027)		0.0073 (0.028)	0.0407 (0.043)		0.0156 (0.015)	0.0198 (0.036)	
Treatment dummy		0.0001 (0.010)	-0.0163 (0.014)	-0.0045 (0.007)	-0.0421* (0.022)		-0.0138 (0.016)	-0.0141 (0.019)		0.00172 (0.016)	-0.0239 (0.020)		-0.00213 (0.029)	-0.0749* (0.040)		-0.0025 (0.023)	0.0238 (0.024)		-0.0253 (0.026)	-0.0478 (0.040)		-0.0117 (0.012)	-0.0162 (0.028)	
R2 dummy		0.00979* (0.006)	0.00365 (0.011)	0.00976** (0.005)	0.00401 (0.007)		0.0288** (0.012)	0.0339** (0.016)		0.0306*** (0.009)	-0.00095 (0.008)		-0.0242 (0.025)	-0.0834* (0.044)		-0.00763 (0.011)	0.0199 (0.019)		0.0582*** (0.018)	0.0672** (0.029)		0.0240*** (0.009)	-0.0244 (0.022)	
Observations	9,715	13,500	5,914	9,715	13,500	5,915	9,715	13,502	5,915	9,715	13,502	5,915	9,715	13,502	5,915	9,715	13,502	5,915	9,715	13,502	5,915	9,715	13,502	5,915
R-squared	0.222	0.196	0.231	0.04	0.035	0.04	0.054	0.047	0.073	0.117	0.102	0.114	0.118	0.1	0.091	0.32	0.322	0.3	0.167	0.146	0.148	0.09	0.034	0.086

	Trust in Neighbors (0-8 scale)	Any Household Member Victim of Crime in past 12 mos?	Number of Times any Household Member Assaulted in Street in past 12 mos	Number of Activities Abandoned Due to Insecurity (0-8)	Gang Activity is a Problem for Youth?	Alcohol/Drugs are a Problem for Youth?	Youth Get Together to Play Sports/Music?	Youth Get Together to Fight Between Groups?
Treatment * R2	0.483** (0.015)	-0.0484 (0.278)	-0.152** (0.028)	-0.249 (0.474)	-0.0925** (0.018)	-0.0516 (0.177)	0.212*** (0.000)	-0.131* (0.054)
R2	-0.690*** (0.000)	0.0483 (0.119)	0.125** (0.027)	0.536* (0.091)	0.00533 (0.887)	0.0363 (0.148)	-0.183*** (0.002)	0.0915** (0.038)
R1 Mean in Control:	4.401	0.106	0.096	2.682	0.719	0.788	0.482	0.495
# of Obs:	684	684	684	684	684	684	684	684
Sharpened q-values controlling for the false discovery rate across:								
Selected variables only:	0.051*	0.189	0.058*	0.283	0.051*	0.134	0.002***	0.067
Selected + SC index vars:	0.084*	0.581	0.089*	0.836	0.084*	0.436	0.003***	0.132
All SC variables	0.249	1	0.255	1	0.249	1	0.006***	0.354

Polygon-level analysis with polygon fixed effects and standard errors clustered at the municipal level. Analysis is weighted by the product of a population weight (to be representative of all residents in the study neighborhoods) and a saturation weight. P-values in parentheses, stars indicate significance at * 90%, ** 95%,

Balance Tests for Predicted Changes in:

	Basic Infrastructure Index	Satisfaction with Infrastructure	Satisfaction with Community	Transport Time Index	Health Index	Local Amenities Index	SC: Participation	SC: Trust	SC: Security	SC: Youth
	(1)	(2)	(3)	(4)	(5)	(3)	(4)	(5)	(4)	(5)
Treatment	-0.0643 (0.040)	0.00545 (0.040)	-0.0205 (0.038)	0.00962 (0.037)	0.0258 (0.031)	0.013 (0.033)	0.0493 (0.063)	0.0512 (0.061)	0.0931* (0.053)	0.0717* (0.042)
Constant	0.209*** (0.043)	-0.0765* (0.043)	-0.245*** (0.045)	0.00752 (0.026)	0.0319 (0.028)	0.129*** (0.032)	-0.142** (0.059)	-0.380*** (0.059)	-0.278*** (0.049)	-0.02 (0.033)
Observations	341	341	341	341	341	341	341	341	341	341
R-squared	0.011	0	0.002	0	0.005	0.001	0.005	0.006	0.024	0.016

Regression first regresses the R1-R2 change in each index on a battery of baseline covariates in the control group. Fitted coefficients are then used to predict changes in the treatment and control group alike, and the table shows balance tests for the difference in these predicted changes between treatment and control. Polygon-level analysis with standard errors clustered at the municipal level. Analysis is weighted by a population weight to be representative of all residents in the study neighborhoods. Standard Errors in parentheses, Stars indicate significance at * 90%, ** 95%, and *** 99%.