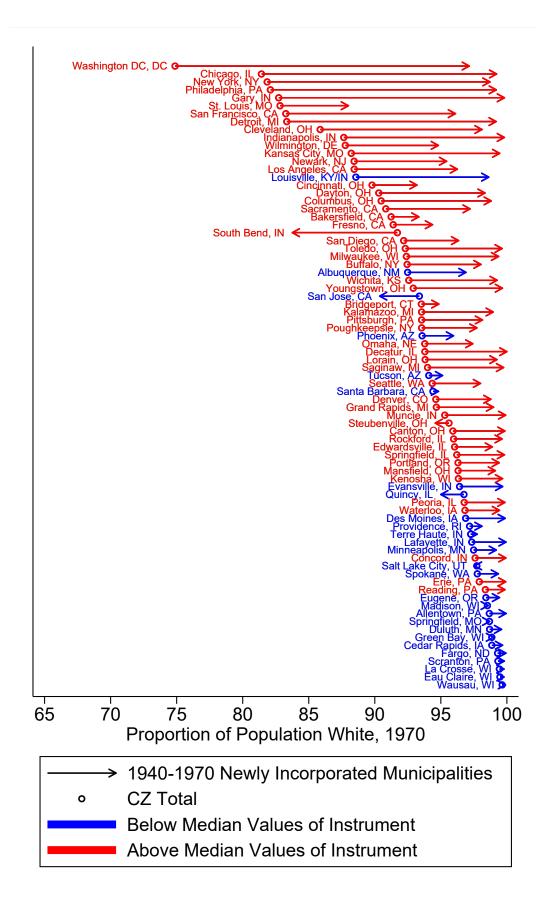
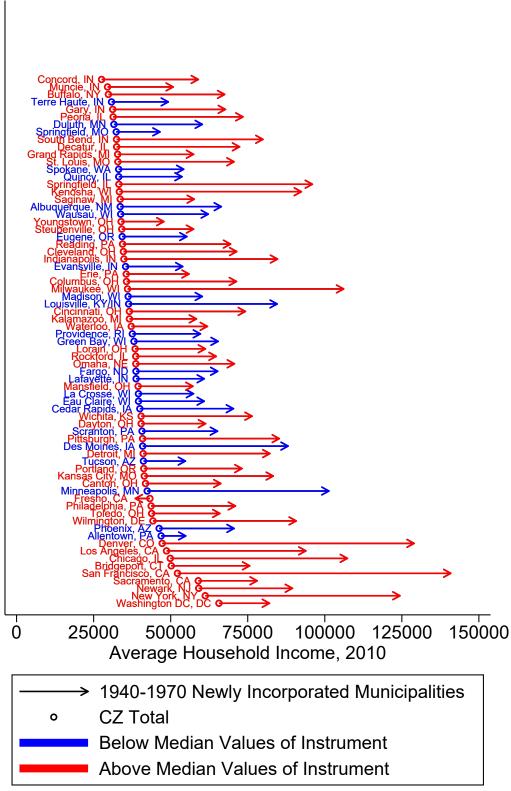
## Counterfactuals

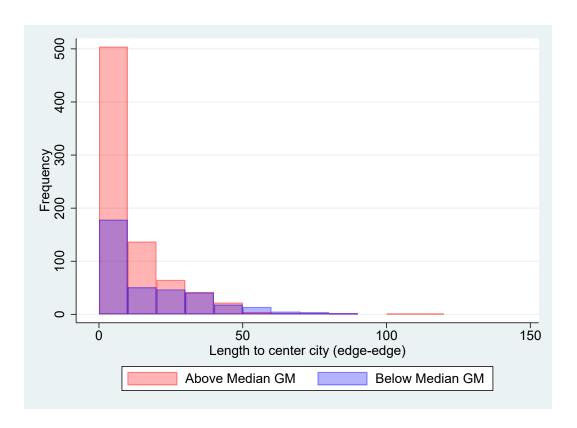
September 18, 2024





Above Median Average Difference: 92.82% Below Median Average Difference: 69.28%

	Panel A: E	Below Median	GM CZs					
	1940-70 In	corporations	All othe	er munis	Principl	le Cities	CZ A	verage
	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$
HH Income, 1970	13128	3524	10894	1846	11424	766	10249	1208
Home Value, 1970	24653.28	8448.91	19433.84	5120.08	20428.93	3721.66	16704.70	3683.49
HH Income, 2010	98307.57	38028.95	69839.80	21204.47	71448.29	15176.55	64193.71	11133.63
Pct White, 1970	97.71	3.95	96.98	2.85	93.78	1.35	97.57	2.38
Pct White, 2010	79.35	17.18	77.91	14.90	65.62	12.41	87.56	8.02
·	Panel B: A	bove Median	GM CZs					
	1940-70 In	corporations	All othe	r munis	Principl	le Cities	CZ A	verage
	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$
HH Income, 1970	13780	4726	12948	4875	11072	756	11561	1050
Home Value, 1970	24549.73	9622.18	20545.65	9261.05	19684.60	5286.08	19469.02	4371.02
HH Income, 2010	85199.11	47900.82	74128.10	41661.26	59341.63	13605.17	68475.28	12857.98
Pct White, 1970	96.75	9.74	96.57	8.14	80.31	11.12	92.06	5.41
Pct White, 2010	77.76	24.07	87.72	17.55	58.16	15.15	79.32	11.02
	Panel C: A	all CZs						
	1940-70 In	corporations	All othe	r munis	Principl	le Cities	CZ A	verage
	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$
HH Income, 1970	13664	4687	12420	4585	10928	929	10770	1299
Home Value, 1970	23989.17	9701.89	19184.66	8769.87	19135.87	4885.79	17769.27	4186.59
HH Income, 2010	82893.81	46340.63	69613.05	36385.55	60522.27	14829.21	64918.35	11982.74
Pct White, 1970	96.83	8.87	97.08	7.25	87.41	11.22	94.86	4.97
Pct White, 2010	81.12	22.16	90.09	15.52	66.63	17.82	83.86	10.64



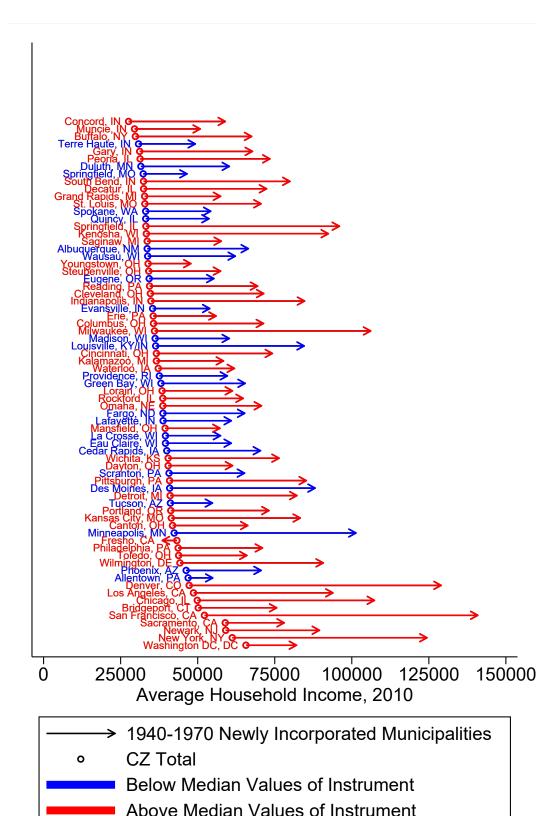


Table 1: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	$agg\_fam\_inc\_place1970$	$agg\_house\_value\_place1970$	$mean\_hh\_inc\_place$	$prop\_white1970$	$prop\_white 2010$	$place\_pop1970$	place_land
samp_dest	1087.121	-7254.719	8465.569	10.056**	9.164	-6894554.204***	-5.739e + 07
	(2309.335)	(4728.906)	(16932.581)	(4.890)	(11.448)	(1236989.222)	(61514152.505)
above_x_med	207.101	520.511	-4974.573	-7.318***	-6.841	424795.628	278467.519
	(329.818)	(928.211)	(3956.591)	(1.463)	(5.489)	(319333.915)	(10236335.651)
samp_destXabove_x_med	-583.189	-2192.153	-12345.204*	7.532***	3.675	-414796.063	-1.927e + 07*
	(813.064)	(1461.735)	(7444.362)	(1.271)	(4.129)	(320434.280)	(10517400.992)
N	3626	5132	8819	5251	8819	8836	8512
$R^2$	0.127	0.567	0.212	0.617	0.539	0.863	0.377

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 2: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	$agg\_fam\_inc\_place1970$	$agg\_house\_value\_place1970$	$mean\_hh\_inc\_place$	$prop\_white1970$	$prop\_white 2010$	$place\_pop1970$	place_land
samp_dest	2120.193	-5164.475	24997.458	12.941***	6.369	-7007869.311***	-4.767e + 08***
	(2205.933)	(4537.410)	(17093.031)	(3.305)	(13.412)	(618372.385)	(1.166e+08)
above_x_med	-53.621	85.399	-6464.374**	-11.021***	-4.920	668963.747**	2.263e+08***
	(255.675)	(693.521)	(3257.549)	(2.137)	(5.302)	(322438.391)	(36812344.090)
$samp\_destXabove\_x\_med$	-322.468	-1757.042	-10855.403	11.235***	1.755	-658964.189**	-2.453e+08***
	(861.037)	(1872.250)	(7959.225)	(2.010)	(4.147)	(322702.741)	(36545668.569)
N	861	1020	1467	1049	1467	1467	1461
$R^2$	0.378	0.799	0.551	0.853	0.711	0.956	0.915

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 3: Raw Splits

	(1)	(2)	(3)
	touching	$below\_len\_edge$	$len\_edge\_edge$
samp_dest	0.095	-0.109	-1.050
	(0.312)	(0.242)	(8.510)
above_x_med	-0.041	-0.040	0.465
	(0.058)	(0.055)	(2.342)
samp_destXabove_x_med	0.021	-0.023	1.852
	(0.160)	(0.048)	(1.927)
N	8514	8514	8386
$R^2$	0.038	0.072	0.085

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 4: Raw Splits

	(1)	(2)	(3)	(4)
	$exclusive\_district\_place$	$exclusive\_district\_shape$	psum_shared_boundary_muni	min_hausdorff_muni
samp_dest	-0.972***	0.417	0.082	-0.070*
	(0.341)	(0.287)	(0.190)	(0.037)
above_x_med	-0.042	-0.309*	0.068	-0.005
	(0.069)	(0.166)	(0.044)	(0.011)
$samp\_destXabove\_x\_med$	0.209***	0.403**	0.030	-0.020*
	(0.077)	(0.167)	(0.065)	(0.011)
N	8836	8836	8836	8836
$R^2$	0.163	0.480	0.166	0.446

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 5: Raw Splits

	(1)	(2)	(3)	(4)
	$exclusive\_district\_place$	$exclusive\_district\_shape$	psum_shared_boundary_muni	$min\_hausdorff\_muni$
samp_dest	-1.145***	0.682**	-0.082	0.024
	(0.309)	(0.319)	(0.297)	(0.057)
above_x_med	-0.051	-0.369**	0.100*	0.039**
	(0.089)	(0.179)	(0.059)	(0.017)
$samp\_destXabove\_x\_med$	0.218**	0.463**	-0.002	-0.064***
	(0.104)	(0.182)	(0.079)	(0.016)
N	1467	1467	1467	1467
$R^2$	0.268	0.694	0.346	0.701

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 6: Raw Splits

	(.)	(-)	(-)	( . )	()
	(1)	(2)	(3)	(4)	(5)
	$landuse\_sfr$	$landuse\_apartment$	$pct\_rev\_ff$	$pct\_rev\_sa$	$pct\_rev\_debt$
samp_dest	27.137**	-2.910***	0.018	0.809	92.093
	(11.206)	(0.779)	(1.078)	(1.173)	(175.905)
$above\_x\_med$	-0.751	0.619**	0.391***	0.473	-61.021*
	(2.532)	(0.270)	(0.138)	(0.419)	(33.267)
$samp\_destXabove\_x\_med$	10.255***	-0.731***	0.707**	-2.074***	40.542
	(2.933)	(0.231)	(0.309)	(0.566)	(52.894)
N	8699	8699	8694	8694	8694
$R^2$	0.791	0.785	0.158	0.117	0.207

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 7: Raw Splits

	(1)	(0)	(2)	(4)	<b>(F)</b>
	(1)	(2)	(3)	(4)	(5)
	$landuse\_sfr$	$landuse\_apartment$	$pct\_rev\_ff$	$pct\_rev\_sa$	$pct\_rev\_debt$
samp_dest	22.600*	-3.391**	0.863	0.103	155.056
	(13.016)	(1.448)	(1.051)	(1.398)	(174.801)
above_x_med	-4.672	1.045**	0.502**	0.718**	-83.421**
	(3.155)	(0.453)	(0.195)	(0.282)	(38.668)
$samp\_destXabove\_x\_med$	14.176***	-1.156***	0.596	-2.320***	62.942
	(3.426)	(0.427)	(0.399)	(0.820)	(56.314)
N	1448	1448	1439	1439	1439
$R^2$	0.905	0.879	0.297	0.263	0.392

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 8: Raw Splits

	(1)	(2)	(3)	(4)	(5)
	EI	$mean\_dist\_max\_int$	mean_min_hausdorff_muni	mean_psum_shared_muni	$mean\_psum\_shared\_dist$
GM_raw_pp	0.007***	0.011***	-0.004***	0.005	0.005
	(0.003)	(0.003)	(0.001)	(0.004)	(0.004)
$\overline{N}$	118	118	118	118	118
$R^2$	0.681	0.709	0.742	0.342	0.151

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 9: Raw Splits

	(1)	(2)	(3)	(4)
	$vr_blwt_cz$	$diss\_blwt\_cz$	$SP_nexpd_1970$	rco1970
GM_raw_pp	0.016***	0.003***	0.007***	-0.033***
	(0.003)	(0.001)	(0.002)	(0.007)
N	118	118	130	130
$R^2$	0.724	0.582	0.258	0.433

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 10: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	$math\_test\_pct\_prof\_midpt$	$read\_test\_pct\_prof\_midpt$	mean_ap	totenroll	$st\_ratio\_leaid$	$pct\_white\_leaid$	pct_free_red_lunch_leaid
int_0	-82.538**	-59.371**	35.346	6533.812**	10.793	-2.042***	0.709
	(39.061)	(29.776)	(22.336)	(2730.419)	(12.830)	(0.549)	(0.771)
$above\_x\_med$	-5.644**	1.285	1.177	176.480**	1.843***	-0.096**	0.017
	(2.284)	(2.780)	(0.925)	(80.317)	(0.469)	(0.038)	(0.021)
above_x_med_int_0	5.598	1.882	-4.696	-894.681**	-2.714*	0.255***	0.031
	(8.753)	(6.840)	(3.479)	(397.454)	(1.407)	(0.077)	(0.139)
above_x_med_int_0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	(.)	(.)	(.)	(.)	(.)	(.)	(.)
N	2835	2833	3089	4224	4199	4224	4224
$R^2$	0.246	0.247	0.118	0.097	0.398	0.370	0.083

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 11: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)
	$bw\_gap\_math\_raw$	$bw\_gap\_math\_pct$	$bw\_gap\_read\_raw$	$bw\_gap\_read\_pct$	$bw\_gap\_grad\_raw$	$bw\_gap\_grad\_pct$
GM_raw_pp	0.037	-0.004	-0.093	-0.004	-0.181***	-0.002**
	(0.177)	(0.004)	(0.189)	(0.004)	(0.060)	(0.001)
$\overline{N}$	108	108	108	108	115	115
$R^2$	0.555	0.517	0.587	0.594	0.341	0.453

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 12: School District Capital Expenditure

	(1)	(2)	(3)	(4)
	Capital outlays/Total Expenditure	Capital outlays/Total Enrollment	Log Capital Outlays	log(Capital outlays/Total Enrollme
Prop Border with 40-70 incorporation	0.040	1.275	2.175	1.288
	(0.088)	(1318.729)	(2.454)	(1.254)
Above Median GM	-0.002	73.278	0.516**	0.137
	(0.009)	(105.966)	(0.214)	(0.104)
Prop Border 40-70 X Above Median GM	-0.036	-385.582	-1.882***	-0.520**
	(0.022)	(364.857)	(0.496)	(0.244)
Observations	4117	4117	4116	4116
$R^2$	0.063	0.013	0.180	0.055

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 13: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	$\mathrm{mf}$	$mixed_use$	$attached\_sfr$	adu	$flex\_zoning\_br$	$min\_lot\_size\_mean$	$min\_lot\_size\_max$
samp_dest	-0.094	-0.831	-0.760***	-1.184**	-0.154	49889.752**	139634.815
	(0.082)	(0.557)	(0.196)	(0.596)	(0.248)	(23167.306)	(84248.118)
above_x_med	-0.000	-0.128***	0.384***	0.093	0.189	-7415.561	-53398.490*
	(0.004)	(0.040)	(0.130)	(0.125)	(0.136)	(6868.233)	(31694.361)
$samp\_destXabove\_x\_med$	0.002	0.037	-0.411***	-0.228*	-0.227	-2933.187	46993.519
	(0.008)	(0.090)	(0.096)	(0.137)	(0.163)	(9744.735)	(33741.665)
N	3349	3326	3401	3383	3402	3156	3150
$R^2$	0.008	0.086	0.382	0.321	0.192	0.228	0.230

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 14: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	mf	$mixed_use$	attached_sfr	adu	flex_zoning_br	min_lot_size_mean	min_lot_size_max
samp_dest	-0.090	-0.901	-0.978***	-1.774***	-0.047	82017.323**	290103.876*
	(.)	(0.581)	(0.298)	(0.562)	(0.402)	(37780.021)	(156098.843)
above_x_med	0.000	-0.039	0.507***	-0.066	0.521**	-11133.497	-89893.176**
	(.)	(0.034)	(0.159)	(0.135)	(0.231)	(8007.805)	(37177.727)
samp_destXabove_x_med	0.002	-0.052	-0.534***	-0.069	-0.559**	784.748	83488.202**
	(.)	(0.099)	(0.143)	(0.163)	(0.251)	(10460.136)	(39702.217)
$\overline{N}$	765	735	776	773	774	705	699
$R^2$	0.029	0.306	0.637	0.531	0.496	0.471	0.433

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 15: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)
	$mf\_conversion\_allowed$	inclusionary_zoning	permit_cap_phasing	$n\_approving\_agencies$	$mf_public_hearing$	max_review_days
samp_dest	-0.862***	-0.051	0.528	-1.586**	0.896***	100.217
	(0.225)	(0.343)	(0.407)	(0.749)	(0.303)	(133.085)
above_x_med	-0.455***	0.491***	0.121	-0.015	0.296**	151.064*
	(0.133)	(0.113)	(0.128)	(0.170)	(0.118)	(81.493)
samp_destXabove_x_med	0.481***	-0.776***	-0.115	0.728***	-0.204*	-128.238
	(0.150)	(0.124)	(0.137)	(0.230)	(0.108)	(85.599)
N	3394	3265	3405	3375	3357	2980
$R^2$	0.772	0.505	0.233	0.355	0.273	0.282

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 16: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)
	$mf\_conversion\_allowed$	inclusionary_zoning	permit_cap_phasing	$n\_approving\_agencies$	$mf_public_hearing$	max_review_days
samp_dest	-0.576**	-0.256	-0.086	-1.141	0.580	30.721
	(0.248)	(0.430)	(0.343)	(1.308)	(0.463)	(145.700)
above_x_med	-0.590***	0.775***	0.470**	-0.510	0.583***	448.583***
	(0.122)	(0.133)	(0.180)	(0.367)	(0.161)	(101.521)
samp_destXabove_x_med	0.616***	-1.060***	-0.464**	1.223***	-0.491***	-425.757***
-	(0.134)	(0.171)	(0.188)	(0.395)	(0.146)	(105.259)
N	774	743	776	764	760	676
$R^2$	0.865	0.754	0.528	0.575	0.534	0.724

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 17: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	$age\_restrictions$	inclusionary_zoning_comply	$lot\_size\_nature\_restriction$	$max\_frontage\_req\_sfr$	$n\_steps\_mf$	$First\_PC$	$Second_PC$
samp_dest	0.261	0.157	-0.077	84.956	-1.577	-0.863	2.046***
	(0.842)	(0.142)	(0.268)	(56.563)	(1.665)	(1.455)	(0.643)
above_x_med	0.562***	0.059	0.011	4.612	0.235	1.726***	-0.356*
	(0.093)	(0.037)	(0.030)	(12.399)	(0.247)	(0.512)	(0.196)
$samp\_destXabove\_x\_med$	-0.603***	-0.170***	-0.017	-23.377	-0.043	-2.475***	0.231
	(0.162)	(0.051)	(0.063)	(16.974)	(0.387)	(0.395)	(0.249)
N	3068	3397	2816	3060	3391	3405	3405
$\mathbb{R}^2$	0.364	0.100	0.060	0.399	0.151	0.286	0.405

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 18: Raw Splits

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	$age\_restrictions$	inclusionary_zoning_comply	$lot\_size\_nature\_restriction$	$max\_frontage\_req\_sfr$	$n\_steps\_mf$	$First\_PC$	$Second\_PC$
$samp\_dest$	0.317	0.334	-0.179	72.126	-3.326*	-1.877	2.852***
	(0.763)	(0.229)	(0.228)	(69.967)	(1.991)	(1.272)	(0.888)
above_x_med	0.790***	0.094	0.035	9.632	0.966**	2.783***	-0.645**
	(0.101)	(0.120)	(0.046)	(19.832)	(0.382)	(0.461)	(0.269)
$samp\_destXabove\_x\_med$	-0.831***	-0.205	-0.040	-28.398	-0.774	-3.533***	0.520*
_	(0.163)	(0.130)	(0.080)	(24.575)	(0.514)	(0.406)	(0.301)
N	714	775	647	718	775	776	776
$R^2$	0.670	0.213	0.122	0.576	0.400	0.689	0.484

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01