

Analysis Results

Your Name

1 Municipality Level Specification

1.1 First stage

Table 1: Raw Splits

	(1)	(2)	(3)
	Municipality Touches Principle City	Length to center city (edge-edge)	above.len.
Incorporated 1940-70	0.143*** (0.017)	-6162.352*** (1542.008)	-0.156*** (0.029)
Above Median GM	0.017** (0.007)	-3854.789*** (661.713)	-0.056*** (0.012)
Above Median GM X Inc. 1940-70	-0.030 (0.021)	-6751.830*** (1899.496)	-0.112*** (0.036)
Constant	0.065*** (0.006)	34591.827*** (529.099)	0.573*** (0.010)
Observations	7728	7595	7728
R^2	0.021	0.027	0.029

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 2: 0-th Stage

	(1)	(2)	(3)
	Municipality Touches Principle City	Length to center city (edge-edge)	above.len.
Incorporated 1940-70	0.484* (0.289)	-17003.085 (12829.611)	-0.092 (0.216)
Above Median GM	0.005 (0.038)	-533.988 (3415.876)	0.020 (0.049)
Above Median GM X Inc. 1940-70	-0.044 (0.143)	2826.972 (2967.463)	0.024 (0.039)
Observations	7718	7593	7718
R^2	0.024	0.056	0.049
Adjusted R^2	0.022	0.054	0.048

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 3: Proportion White 1970

	(1) prop_white1970	(2) prop_white1970
Incorporated 1940-70	-0.011 (0.007)	-0.013* (0.007)
Above Median GM	-0.024*** (0.003)	-0.022*** (0.003)
Above Median GM X Inc. 1940-70	0.014 (0.009)	0.011 (0.008)
Constant	0.986*** (0.002)	0.988*** (0.002)
Observations	4343	4217
R^2	0.016	0.014

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 4: Proportion White 1970

	(1) prop_white1970	(2) prop_white1970
Incorporated 1940-70	0.095* (0.054)	0.023 (0.037)
Above Median GM	-0.077*** (0.010)	-0.028*** (0.007)
Above Median GM X Inc. 1940-70	0.081*** (0.010)	0.032*** (0.009)
Observations	4341	4215
R^2	0.217	0.096
Adjusted R^2	0.214	0.093

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 5: Proportion White 1970

	(1) prop_white_students	(2) prop_white_students
Incorporated 1940-70	-0.141*** (0.021)	-0.152*** (0.021)
Above Median GM	-0.119*** (0.009)	-0.121*** (0.009)
Above Median GM X Inc. 1940-70	-0.018 (0.026)	-0.015 (0.025)
Constant	0.807*** (0.007)	0.818*** (0.007)
Observations	4961	4835
R^2	0.075	0.083

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 6: Proportion White Students

	(1) prop_white_students	(2) prop_white_students
Incorporated 1940-70	0.008 (0.131)	-0.194* (0.115)
Above Median GM	-0.162*** (0.041)	-0.148*** (0.042)
Above Median GM X Inc. 1940-70	0.142*** (0.037)	0.127*** (0.033)
Observations	4961	4835
R^2	0.286	0.349
Adjusted R^2	0.284	0.347

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

2 School Characteristics

Table 7: School Presence

	(1) one_school	(2) one_school	(3) no_school	(4) no_school
Incorporated 1940-70	0.040* (0.022)	0.000 (.)	0.027 (0.028)	0.016 (0.029)
Above Median GM	0.024*** (0.009)	0.000 (.)	-0.109*** (0.012)	-0.116*** (0.012)
Above Median GM X Inc. 1940-70	-0.052** (0.027)	0.000 (.)	-0.024 (0.035)	-0.017 (0.035)
Constant	0.140*** (0.007)	0.000 (.)	0.437*** (0.010)	0.448*** (0.010)
Observations	7854	126	7854	7728
R^2	0.001	.	0.012	0.014

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 8: School Presence

	(1) one_school	(2) one_school	(3) no_school	(4) no_school
Incorporated 1940-70	0.050 (0.064)	-0.025 (0.079)	0.060 (0.063)	-0.008 (0.079)
Above Median GM	-0.008 (0.007)	-0.015 (0.010)	-0.007 (0.007)	-0.013 (0.011)
Above Median GM X Inc. 1940-70	-0.027 (0.029)	-0.020 (0.030)	0.009 (0.016)	0.015 (0.017)
Observations	7844	7718	7844	7718
R^2	0.016	0.025	0.022	0.031
Adjusted R^2	0.015	0.023	0.020	0.029

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 9: Exclusive District

	(1) exclusive_district_place	(2) exclusive_district_place
Incorporated 1940-70	-0.141*** (0.029)	-0.128*** (0.029)
Above Median GM	0.075*** (0.012)	0.082*** (0.013)
Above Median GM X Inc. 1940-70	0.003 (0.036)	-0.004 (0.036)
Constant	0.443*** (0.010)	0.430*** (0.010)
Observations	7854	7728
R^2	0.013	0.013

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 10: Exclusive District

	(1) exclusive_district_place	(2) exclusive_district_place
Incorporated 1940-70	-0.842** (0.368)	-0.544 (0.361)
Above Median GM	0.002 (0.065)	0.051 (0.059)
Above Median GM X Inc. 1940-70	0.172** (0.076)	0.123 (0.075)
Observations	7580	7465
R^2	0.129	0.093
Adjusted R^2	0.127	0.091

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 11: Exclusive District (by overlap)

	(1)	(2)
	exclusive_district_shape	exclusive_district_shape
Incorporated 1940-70	-0.012 (0.012)	-0.009 (0.011)
Above Median GM	0.039*** (0.005)	0.040*** (0.005)
Above Median GM X Inc. 1940-70	-0.019 (0.014)	-0.019 (0.014)
Constant	0.018*** (0.004)	0.015*** (0.004)
Observations	7854	7728
R^2	0.010	0.010

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 12: Exclusive District (by Overlap)

	(1)	(2)
	exclusive_district_shape	exclusive_district_shape
Incorporated 1940-70	-0.137 (0.203)	-0.254 (0.180)
Above Median GM	-0.053 (0.053)	-0.012 (0.033)
Above Median GM X Inc. 1940-70	0.112* (0.057)	0.071 (0.045)
Observations	7580	7465
R^2	0.120	0.224
Adjusted R^2	0.119	0.223

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 13: Land Area

	(1) place_land	(2) place_land
Incorporated 1940-70	6882501.058** (2964962.842)	10167844.536*** (2190321.476)
Above Median GM	113625.426 (1254693.139)	630832.055 (935589.775)
Above Median GM X Inc. 1940-70	-3278470.943 (3649939.874)	-3795677.572 (2695795.140)
Constant	14816043.976*** (1004264.049)	11530700.498*** (750380.798)
Observations	7844	7718
R^2	0.001	0.005

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 14: Land Area

	(1) place_land	(2) place_land
Incorporated 1940-70	-3.719e+08* (1.966e+08)	-3.553e+07 (51457610.531)
Above Median GM	35874072.060 (26230137.755)	-6268219.449 (8120200.481)
Above Median GM X Inc. 1940-70	-5.928e+07** (28550484.094)	-1.714e+07* (8786296.626)
Observations	7842	7716
R^2	0.212	0.337
Adjusted R^2	0.211	0.336

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 15: Land Area

	(1) place_land	(2) place_land
Incorporated 1940-70	10167844.536*** (2190321.476)	10167844.536*** (2190321.476)
Above Median GM	630832.055 (935589.775)	630832.055 (935589.775)
Above Median GM X Inc. 1940-70	-3795677.572 (2695795.140)	-3795677.572 (2695795.140)
Constant	11530700.498*** (750380.798)	11530700.498*** (750380.798)
Observations	7718	7718
R^2	0.005	0.005

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 16: Land Area

	(1) place_land	(2) place_land
Incorporated 1940-70	-3.553e+07 (51457610.531)	-3.553e+07 (51457610.531)
Above Median GM	-6268219.449 (8120200.481)	-6268219.449 (8120200.481)
Above Median GM X Inc. 1940-70	-1.714e+07* (8786296.626)	-1.714e+07* (8786296.626)
Observations	7716	7716
R^2	0.337	0.337
Adjusted R^2	0.336	0.336

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 17: Average Total Enrollment

	(1)	(2)
	avg_totenroll_place	avg_totenroll_place
Incorporated 1940-70	108.077*** (20.066)	115.557*** (20.271)
Above Median GM	81.543*** (8.057)	88.185*** (8.276)
Above Median GM X Inc. 1940-70	-12.626 (23.864)	-19.268 (24.099)
Constant	419.116*** (6.646)	411.636*** (6.853)
Observations	4961	4835
R^2	0.039	0.042

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 18: Average Total Enrollment

	(1)	(2)
	avg_totenroll_place	avg_totenroll_place
Incorporated 1940-70	134.642 (92.063)	64.896 (98.988)
Above Median GM	22.584 (26.645)	35.901 (36.756)
Above Median GM X Inc. 1940-70	-145.670** (57.995)	-158.987*** (52.605)
Observations	4771	4656
R^2	0.222	0.213
Adjusted R^2	0.219	0.211

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 19: Muni Dist Similarity

	(1) (min) hausdorff	(2) (min) hausdorff	(3) pmax_shared_boundary_muni	(4) pmax_shared_boundary_muni	(5) psum_shared_boundary_muni
Incorporated 1940-70	-0.023*** (0.006)	-0.025*** (0.006)	0.000 (0.015)	0.005 (0.015)	0.000 (0.015)
Above Median GM	-0.083*** (0.002)	-0.085*** (0.002)	0.101*** (0.006)	0.102*** (0.006)	0.101*** (0.006)
Above Median GM X Inc. 1940-70	-0.009 (0.007)	-0.007 (0.007)	0.009 (0.019)	0.008 (0.019)	0.009 (0.019)
Constant	0.205*** (0.002)	0.207*** (0.002)	0.079*** (0.005)	0.075*** (0.005)	0.079*** (0.005)
Observations	7846	7720	7854	7728	7854
R^2	0.163	0.169	0.035	0.036	0.035

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 20: Muni-Dist Similarity

	(1)	(2)	(3)	(4)	(5)
	(min) hausdorff	(min) hausdorff	pmax_shared_boundary_muni	pmax_shared_boundary_muni	psum_shared_boundary_muni
Incorporated 1940-70	-0.045 (0.045)	-0.103** (0.040)	-0.158 (0.205)	-0.028 (0.175)	-0.158 (0.205)
Above Median GM	-0.024** (0.010)	-0.039*** (0.009)	0.067* (0.040)	0.029 (0.039)	0.067* (0.040)
Above Median GM X Inc. 1940-70	-0.005 (0.009)	0.010 (0.009)	0.029 (0.054)	0.067 (0.051)	0.029 (0.054)
Observations	7844	7718	7844	7718	7844
R^2	0.181	0.246	0.206	0.355	0.206
Adjusted R^2	0.179	0.245	0.204	0.353	0.204

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

3 Land Use and Police Expenditure

Table 21: Land Use

	(1)	(2)
	Percentage of land use zoned for sfr, Corelogic	Percentage of land use zoned for sfr
Incorporated 1940-70	-1.074 (1.365)	-1.020 (1.368)
Above Median GM	7.016*** (0.574)	7.169*** (0.581)
Above Median GM X Inc. 1940-70	4.915*** (1.674)	4.762*** (1.678)
Constant	72.246*** (0.461)	72.192*** (0.468)
Observations	7711	7585
R^2	0.027	0.028

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 22: Land Use

	(1)	(2)
	Percentage of land use zoned for sfr, Corelogic	Percentage of land use zoned for sfr
Incorporated 1940-70	15.739 (13.893)	-8.123 (10.576)
Above Median GM	0.164 (2.463)	2.934 (1.922)
Above Median GM X Inc. 1940-70	9.767*** (2.189)	6.997*** (2.264)
Observations	7711	7585
R^2	0.253	0.062
Adjusted R^2	0.251	0.060

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

4 Transit and AP Access

5 CZ level differences

6 Full Main CZ-level Specification

Table 23: Police Expenditure

	(1)	(2)	(3)	(4)	(5)
	pct_exp_pol	pct_exp_pol	pc_pol	pc_pol	Percentage of revenue from fines
Incorporated 1940-70	3.372*** (0.624)	3.495*** (0.628)	5.065 (5.920)	5.367 (5.976)	-0.013 (0.177)
Above Median GM	5.601*** (0.263)	5.705*** (0.268)	9.037*** (2.504)	9.143*** (2.552)	0.681*** (0.075)
Above Median GM X Inc. 1940-70	2.880*** (0.766)	2.776*** (0.772)	3.580 (7.279)	3.474 (7.347)	1.308*** (0.217)
Constant	7.588*** (0.211)	7.465*** (0.215)	11.337*** (2.006)	11.035*** (2.048)	0.693*** (0.060)
Observations	7742	7616	7738	7612	7746
R^2	0.095	0.097	0.003	0.003	0.031

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 24: Police Expenditure

	(1)	(2)	(3)	(4)	(5)
	pct_exp_pol	pct_exp_pol	pc_pol	pc_pol	Percentage of revenue from fines and
Incorporated 1940-70	12.422** (4.757)	4.432 (4.396)	-14.321 (8.750)	-1.551 (5.101)	-0.636 (1.060)
Above Median GM	2.766*** (0.841)	3.211*** (0.800)	6.523*** (1.523)	4.329*** (1.373)	0.517*** (0.156)
Above Median GM X Inc. 1940-70	1.146 (1.139)	0.700 (1.258)	-2.366 (2.169)	-0.171 (1.805)	0.707** (0.287)
Observations	7733	7607	7738	7612	7737
R^2	0.174	0.127	0.132	0.040	0.085
Adjusted R^2	0.173	0.125	0.130	0.038	0.083

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 25: Transit Performance

	(1)	(2)
	alltransit_performance_score	alltransit_performance_score
Incorporated 1940-70	0.926*** (0.139)	1.007*** (0.137)
Above Median GM	1.243*** (0.059)	1.272*** (0.059)
Above Median GM X Inc. 1940-70	0.119 (0.172)	0.090 (0.169)
Constant	0.714*** (0.047)	0.632*** (0.047)
Observations	7852	7726
R^2	0.079	0.087

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 26: Transit Performance

	(1)	(2)
	alltransit_performance_score	alltransit_performance_score
Incorporated 1940-70	0.097 (1.384)	1.226 (1.429)
Above Median GM	0.948** (0.422)	0.609 (0.404)
Above Median GM X Inc. 1940-70	-1.148*** (0.374)	-0.810** (0.343)
Observations	7843	7717
R^2	0.279	0.260
Adjusted R^2	0.277	0.259

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 27: White AP Access

	(1)	(2)
	White Enrollment if has AP program, place percentage	White Enrollment if has AP program, place percentage
Incorporated 1940-70	-2.421* (1.247)	-1.156 (9.242)
Above Median GM	3.376*** (0.527)	0.317 (1.092)
Above Median GM X Inc. 1940-70	0.726 (1.535)	-4.268 (2.942)
Constant	11.686*** (0.422)	11.266 (0.422)
Observations	7854	7844
R^2	0.007	0.029

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 28: White AP Access

	(1)	(2)
	White Enrollment if has AP program, place percentage	White Enrollment if has AP program, place percentage
Incorporated 1940-70	-11.156 (8.242)	-9.242 (9.242)
Above Median GM	-1.317 (0.922)	0.317 (1.092)
Above Median GM X Inc. 1940-70	-2.268 (2.942)	-4.268 (2.942)
Observations	7844	7844
R^2	0.029	0.029
Adjusted R^2	0.027	0.027

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 29: Raw Differences - GINI, VR, and Transit Score

	(1)					(2)					(3)					(4)				
	GINI (Below)					GINI (Above)					VR (Below)					VR (Above)				
	mean	sd	p50	min	max	mean	sd	p50	min	max	mean	sd	p50	min	max	mean	sd	p50	min	max
N	7718					7718					7718					7718				

Table 30: Raw Differences - Fraction Unincorporated

	(1)					(2)					(3)					(4)				
	Change Uninc (Below)					Change Uninc (Above)					Uninc 1970 (Below)					Uninc 1970 (Above)				
	mean	sd	p50	min	max	mean	sd	p50	min	max	mean	sd	p50	min	max	mean	sd	p50	min	max
N	7718					7718					7718					7718				

Table 31: Full Main Specification - GINI, VR, Dissimilarity

	(1)	(2)	(3)	(4)	(5)	(6)
	vr_blwt_cz	vr_blwtas_cz	vr_bl_cz	diss_blwt_cz	diss_blwtas_cz	diss_bl_cz
Percentage Point Change in Urban Black Population	0.014*** (0.002)	0.014*** (0.002)	0.014*** (0.002)	0.003*** (0.001)	0.003*** (0.001)	0.003*** (0.001)
Observations	130	130	130	130	130	130
R^2	0.709	0.751	0.810	0.581	0.612	0.630
Adjusted R^2	0.693	0.737	0.800	0.557	0.590	0.609

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 32: Full Main Specification - Transit Score and Fraction Unincorporated

	(1)	(2)	(3)	(4)
	(mean) alltransit_performance_score	change_frac_unc	frac_uninc1970	frac_uninc2010
Percentage Point Change in Urban Black Population	0.104*** (0.026)	0.011*** (0.001)	-0.006** (0.003)	-0.002 (0.003)
Observations	130	130	130	130
R^2	0.664	0.639	0.461	0.515
Adjusted R^2	0.644	0.618	0.430	0.487

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 33: Full Main Specification - Muni-Dist Similarity 1

	(1)	(2)	(3)	(4)
	EI	dist_max_int_cz	mean_min_hausdorff_muni	mean_min_hausdorff_dist
GM_raw_pp	0.004** (0.002)	0.005 (0.003)	-0.004*** (0.001)	-0.003*** (0.001)
N	130	130	130	130
R^2	0.666	0.506	0.769	0.781
adj. R^2	0.646	0.477	0.755	0.768

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 34: Full Main Specification - Muni-Dist Similarity 1

	(1)	(2)	(3)
	mean_pmax_shared_boundary_muni	mean_pmax_shared_boundary_dist	mean_psum_shared_boundary_muni
GM_raw_pp	0.002 (0.002)	0.006** (0.003)	0.002 (0.002)
N	130	130	130
R^2	0.462	0.344	0.462
adj. R^2	0.431	0.306	0.431

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

7 Special Districts







