

# Simple Tables for Municipality Proliferation

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# 1 Urban Populations

## 1.1 GM\_hat on all covariates

	1940-1970 Pooled	1940-1950	1950-1960	1960-1970	Stacked
mfg_lfshare	0.06*** (0.01)	0.03* (0.01)	0.01** (0.00)	0.02* (0.01)	0.02** (0.01)
blackmig3539	9.19*** (1.78)	3.03* (1.46)	4.39*** (0.36)	2.09** (0.68)	2.87*** (0.80)
frac_land	-0.64 (1.05)	-1.63* (0.80)	-0.26 (0.24)	0.66 (0.38)	-0.18 (0.57)
transpo_cost_1920	-0.04 (0.17)	0.03 (0.14)	-0.00 (0.04)	-0.03 (0.03)	-0.01 (0.06)
coastal	-0.55 (0.41)	-0.35 (0.34)	-0.06 (0.09)	-0.13 (0.08)	-0.16 (0.18)
avg_precip	0.00 (0.01)	0.01 (0.01)	0.00 (0.00)	-0.00 (0.00)	0.00 (0.00)
avg_temp	-0.00 (0.01)	-0.00 (0.01)	-0.00 (0.00)	0.00 (0.00)	-0.00 (0.00)
n_wells	-0.00 (0.00)	-0.00 (0.00)	-0.00 (0.00)	-0.00** (0.00)	-0.00 (0.00)
totfrac_in_main_city	3.54* (1.58)	2.61* (1.06)	0.64 (0.33)	0.59 (0.55)	1.16* (0.56)
urbfrac_in_main_city	-1.09 (1.01)	-0.74 (0.69)	-0.10 (0.22)	-0.28 (0.33)	-0.28 (0.29)
m_rr	0.00 (0.00)	-0.00 (0.00)	-0.00 (0.00)	0.00*** (0.00)	-0.00 (0.00)
m_rr_sqm2	5144.97 (4564.03)	4382.25 (3076.98)	2012.91* (908.14)	-743.36 (1320.28)	1225.44 (2164.82)
reg2	0.65 (0.39)	0.35 (0.32)	0.07 (0.11)	0.22 (0.13)	0.28* (0.13)
reg3	1.06 (1.47)	0.30 (1.00)	0.16 (0.24)	0.23 (0.66)	0.49 (0.47)
reg4	-0.54 (0.71)	-1.44* (0.62)	-0.19 (0.17)	0.61*** (0.16)	-0.21 (0.42)
1940.decade					0.00 (.)
1950.decade					0.11 (0.14)
1960.decade					-0.15 (0.15)

Standard errors in parentheses

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

## 1.2 Balance Table

Table 1

	1940-1970 Pooled	1940-1950	1950-1960	1960-1970	Stacked
mfg_lfshare on GM_hat	1.89** (0.68)	2.41* (1.03)	6.45* (3.04)	4.32** (1.39)	2.28* (0.92)
frac_land on GM_hat	0.05* (0.02)	0.03 (0.02)	0.27* (0.12)	0.14 (0.08)	0.05* (0.02)
transpo_cost_1920 on GM_hat	-0.09 (0.05)	-0.11 (0.10)	-0.43 (0.24)	-0.17 (0.14)	-0.10 (0.06)
coastal on GM_hat	0.01 (0.02)	-0.01 (0.04)	0.10 (0.12)	0.07 (0.06)	0.01 (0.03)
avg_precip on GM_hat	0.21 (0.57)	0.70 (1.01)	4.32 (3.60)	-2.20 (1.54)	0.29 (0.92)
avg_temp on GM_hat	-1.52 (1.74)	-0.48 (3.14)	-2.06 (8.34)	-7.77 (5.21)	-1.52 (2.75)
n_wells on GM_hat	-24.20 (14.50)	-22.49 (15.75)	-42.45 (46.79)	-100.26 (67.81)	-27.14 (14.91)
totfrac_in_main_city on GM_hat	0.06** (0.02)	0.06** (0.02)	0.30** (0.10)	0.15* (0.07)	0.07*** (0.02)
urbfrac_in_main_city on GM_hat	0.01 (0.01)	0.01 (0.02)	0.09 (0.09)	0.00 (0.04)	0.01 (0.02)
m_rr on GM_hat	1.1e+05 (77678.60)	-1.8e+04 (1.5e+05)	-3.1e+04 (4.7e+05)	8.0e+05** (2.7e+05)	1.1e+05 (1.7e+05)
m_rr_sqm2 on GM_hat	0.00* (0.00)	0.00* (0.00)	0.00** (0.00)	0.00 (0.00)	0.00* (0.00)
popc1940 on GM_hat	5.5e+05* (2.3e+05)	3.6e+05 (2.2e+05)	2.6e+06* (1.1e+06)	1.8e+06* (7.2e+05)	6.0e+05** (2.2e+05)
pop1940 on GM_hat	6.1e+05* (2.4e+05)	3.8e+05 (2.5e+05)	2.8e+06* (1.1e+06)	2.1e+06** (7.9e+05)	6.6e+05* (2.6e+05)

Standard errors in parentheses

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

Table 2: Northeast Region

	1940-1970 Pooled	1940-1950	1950-1960	1960-1970	Stacked
mfg_lfshare on GM_hat	-6.89 (7.37)	10.98 (16.01)	4.02 (33.69)	-27.20** (8.37)	-6.67 (6.87)
frac_land on GM_hat	0.72 (0.50)	-0.63 (0.67)	1.00 (2.05)	2.19*** (0.59)	0.63 (0.41)
transpo_cost_1920 on GM_hat	-0.55 (1.00)	-4.05 (2.22)	-3.14 (2.62)	1.25 (1.59)	-0.33 (0.91)
coastal on GM_hat	-0.44 (0.57)	-2.15 (1.53)	-1.39 (1.65)	0.26 (1.15)	-0.25 (0.60)
avg_precip on GM_hat	27.91 (14.80)	-7.38 (43.73)	116.81** (37.14)	47.84 (27.33)	20.89 (13.12)
avg_temp on GM_hat	-11.42 (7.95)	-0.39 (21.32)	-3.01 (43.43)	-31.78* (13.23)	-9.08 (7.25)
n_wells on GM_hat	120.17 (92.24)	204.93 (175.83)	169.28 (183.83)	139.54 (124.39)	73.00 (57.59)
totfrac_in_main_city on GM_hat	0.54* (0.26)	-0.12 (0.78)	-0.79 (1.50)	1.74*** (0.37)	0.45 (0.28)
urbfrac_in_main_city on GM_hat	0.27 (0.25)	0.53 (0.89)	-1.73 (1.45)	0.91 (0.57)	0.22 (0.25)
m_rr on GM_hat	-6.9e+05 (1.3e+06)	2.2e+06 (2.1e+06)	-3.6e+05 (4.4e+06)	-3.3e+06 (1.8e+06)	-7.4e+05 (1.1e+06)
m_rr_sqm2 on GM_hat	-0.00 (0.00)	-0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
popc1940 on GM_hat	5.9e+06 (4.0e+06)	-5.8e+06 (6.4e+06)	5.4e+06 (1.7e+07)	1.9e+07*** (4.4e+06)	5.3e+06 (3.6e+06)
pop1940 on GM_hat	5.0e+06 (3.7e+06)	-6.0e+06 (5.9e+06)	5.3e+06 (1.6e+07)	1.7e+07*** (4.2e+06)	4.6e+06 (3.5e+06)

Standard errors in parentheses

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

Table 3: Midwest Region

	1940-1970 Pooled	1940-1950	1950-1960	1960-1970	Stacked
mfg_lfshare on GM_hat	2.49** (0.76)	5.99*** (1.37)	15.65*** (2.57)	3.23 (2.01)	5.66*** (1.10)
frac_land on GM_hat	0.03 (0.02)	0.04 (0.04)	0.16 (0.12)	0.09 (0.08)	0.07 (0.03)
transpo_cost_1920 on GM_hat	-0.05 (0.05)	-0.05 (0.09)	-0.26 (0.28)	-0.16 (0.13)	-0.10 (0.07)
coastal on GM_hat	0.00 (.)	0.00 (.)	0.00 (.)	0.00 (.)	0.00 (.)
avg_precip on GM_hat	-1.19*** (0.35)	-2.27** (0.78)	-6.05*** (1.46)	-2.76** (1.01)	-2.58*** (0.69)
avg_temp on GM_hat	-2.92 (1.97)	-7.62 (3.96)	-14.93 (9.01)	-4.05 (4.18)	-6.44* (2.88)
n_wells on GM_hat	-38.81 (25.95)	-67.63 (51.36)	-81.83 (108.93)	-127.70 (89.99)	-85.86* (42.73)
totfrac_in_main_city on GM_hat	0.04 (0.02)	0.06 (0.04)	0.19 (0.13)	0.10 (0.06)	0.08* (0.03)
urbfrac_in_main_city on GM_hat	-0.01 (0.01)	-0.03 (0.03)	-0.07 (0.09)	-0.02 (0.04)	-0.03 (0.02)
m_rr on GM_hat	2.2e+05* (87960.79)	3.2e+05 (1.9e+05)	7.7e+05 (6.3e+05)	6.2e+05** (2.3e+05)	4.3e+05** (1.4e+05)
m_rr_sqm2 on GM_hat	0.00 (0.00)	0.00 (0.00)	0.00* (0.00)	0.00 (0.00)	0.00** (0.00)
popc1940 on GM_hat	4.9e+05* (2.3e+05)	8.2e+05* (3.9e+05)	2.5e+06 (1.3e+06)	1.2e+06 (6.7e+05)	1.0e+06** (3.3e+05)
pop1940 on GM_hat	5.8e+05* (2.6e+05)	9.8e+05* (4.4e+05)	3.0e+06* (1.5e+06)	1.4e+06 (7.5e+05)	1.2e+06** (3.8e+05)

Standard errors in parentheses

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

	1940-1970 Pooled	1940-1950	1950-1960	1960-1970	Stacked
mfg_lfshare on GM_hat	-2.20*** (0.57)	-5.18*** (0.87)	-7.01*** (1.48)	-14.16* (6.98)	-6.30*** (0.84)
blackmig3539 on GM_hat	0.10*** (0.01)	0.23*** (0.00)	0.25*** (0.02)	0.58** (0.18)	0.25*** (0.02)
frac_land on GM_hat	-0.00 (0.00)	-0.01 (0.00)	-0.01 (0.01)	-0.00 (0.02)	-0.01 (0.00)
transpo_cost_1920 on GM_hat	0.04 (0.02)	0.09* (0.04)	0.12 (0.07)	0.38 (0.28)	0.12** (0.04)
coastal on GM_hat	0.02 (0.02)	0.04 (0.04)	0.06 (0.05)	0.25 (0.17)	0.05 (0.03)
avg_precip on GM_hat	0.41** (0.16)	0.99*** (0.26)	1.24** (0.48)	1.50 (2.71)	1.11*** (0.25)
avg_temp on GM_hat	0.12 (0.09)	0.29 (0.17)	0.36 (0.25)	0.58 (0.97)	0.33* (0.13)
n_wells on GM_hat	-0.01 (0.01)	-0.01 (0.02)	-0.02 (0.03)	-0.15 (0.15)	-0.02 (0.02)
totfrac_in_main_city on GM_hat	-0.00 (0.01)	-0.02 (0.02)	-0.02 (0.04)	0.02 (0.09)	-0.01 (0.02)
urbfrac_in_main_city on GM_hat	-0.00** (0.00)	-0.01*** (0.00)	-0.01** (0.01)	-0.02 (0.02)	-0.01*** (0.00)
m_rr on GM_hat	29528.74*** (7387.55)	63683.14*** (17878.10)	87360.07*** (20271.72)	2.0e+05* (83358.26)	79450.57*** (15296.42)
m_rr_sqm2 on GM_hat	-0.00*** (0.00)	-0.00*** (0.00)	-0.00*** (0.00)	-0.00 (0.00)	-0.00*** (0.00)
popc1940 on GM_hat	16477.11 (29942.99)	21370.26 (64403.16)	42451.17 (87999.73)	2.7e+05 (1.6e+05)	41527.36 (48977.60)
pop1940 on GM_hat	-5.0e+04 (56168.71)	-1.4e+05 (1.1e+05)	-1.6e+05 (1.7e+05)	-6.9e+04 (4.3e+05)	-1.4e+05 (83095.75)

Standard errors in parentheses

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

### 1.3 Regressions Robust to Balance Table Covariates

Table 4: Outcome variable cgoodman

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.46*** (0.42)	1.89*** (0.29)	10.50*** (1.77)	7.29*** (1.70)	1.82*** (0.65)	2.20*** (0.38)	1.28*** (0.33)	7.21*** (1.82)	4.50** (1.85)	0.49 (0.75)
F-Stat	68.63	42.59	35.16	18.37	7.8	33.8	15.14	15.62	5.9	.42
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.01* (0.00)	0.01 (0.01)	0.00 (0.00)	0.00 (0.00)	0.00* (0.00)	-0.01** (0.01)	0.00 (0.00)	-0.00** (0.00)	-0.00* (0.00)	0.00 (0.00)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.04* (0.02)	-0.01 (0.02)	0.07 (0.05)	0.04** (0.02)	0.00 (0.01)	-0.01 (0.03)	-0.04 (0.03)	-0.04 (0.04)	0.02 (0.01)	-0.02 (0.01)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.01* (0.01)	-0.00 (0.01)	0.01 (0.00)	0.01** (0.00)	0.00 (0.01)	-0.00 (0.01)	-0.03 (0.02)	-0.00 (0.01)	0.00 (0.00)	-0.03 (0.06)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 5: Outcome variable cgoodman Northeast Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	-0.09 (8.44)	2.32 (2.92)	-28.03 (42.89)	-20.55 (21.20)	-11.14 (8.78)	7.48 (6.97)	2.32 (2.92)	-34.55 (42.04)	24.71** (10.47)	-11.14 (8.78)
F-Stat	0	.63	.43	.9399999999999999	1.61	1.15	.63	.68	5.57	1.61
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel B: OLS</b>										
GM_raw_pp	-0.02*** (0.00)	-0.00*** (0.00)	-0.01*** (0.00)	-0.00*** (0.00)	-0.00*** (0.00)	-0.01*** (0.00)	-0.00*** (0.00)	-0.01*** (0.00)	-0.00** (0.00)	-0.00*** (0.00)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.13 (0.14)	0.00 (0.12)	-0.06 (0.28)	0.07 (0.07)	0.01 (0.05)	0.00 (0.13)	0.00 (0.12)	0.05 (0.30)	0.07 (0.06)	0.01 (0.05)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	-1.41 (119.31)	0.00 (0.05)	0.00 (0.01)	-0.00* (0.00)	-0.00 (0.00)	0.00 (0.02)	0.00 (0.05)	-0.00 (0.01)	0.00 (0.00)	-0.00 (0.00)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 6: Outcome variable cgoodman Midwest Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.98*** (0.47)	1.94*** (0.65)	10.34*** (3.73)	8.18*** (1.76)	3.85*** (1.09)	2.12*** (0.42)	1.26* (0.68)	3.91 (3.52)	4.59** (1.93)	1.15 (1.04)
F-Stat	72.430000000000001	8.970000000000001	7.7	21.5	12.45	25.8	3.49	1.23	5.65	1.2
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.01*** (0.00)	0.01*** (0.00)	0.01* (0.00)	0.00*** (0.00)	0.00*** (0.00)	0.00 (0.01)	0.01* (0.01)	-0.00 (0.00)	0.00 (0.00)	-0.00 (0.00)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.05** (0.02)	0.03 (0.03)	0.07 (0.07)	0.01 (0.01)	0.03* (0.01)	0.03 (0.02)	0.05* (0.03)	-0.02 (0.07)	0.00 (0.02)	0.01 (0.02)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.01*** (0.00)	0.02* (0.01)	0.01 (0.01)	0.00 (0.00)	0.01* (0.00)	0.01 (0.01)	0.04* (0.02)	-0.01 (0.02)	0.00 (0.00)	0.01 (0.02)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 7: Outcome variable cgoodman West Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	0.52 (1.68)	-1.21 (1.57)	8.38** (3.12)	0.72 (5.52)	1.13 (0.75)	0.11 (0.89)	-2.10 (1.66)	-8.89 (9.33)	-9.12 (8.64)	0.40 (0.48)
F-Stat	.1	.59	7.21	.02	2.27	.02	1.61	.91	1.11	.6899999999999999
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.01*** (0.00)	0.01** (0.00)	0.01*** (0.00)	0.00*** (0.00)	0.01*** (0.00)	0.00 (0.01)	0.01** (0.00)	0.01 (0.01)	0.00** (0.00)	0.00 (0.00)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.02 (0.03)	0.01 (0.02)	0.03 (0.11)	-0.02 (0.06)	0.00 (0.01)	-0.04 (0.04)	-0.02 (0.02)	-0.46 (0.34)	-0.05 (0.06)	-0.02** (0.01)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.04 (0.07)	-0.01 (0.02)	0.00 (0.01)	-0.03 (0.26)	0.00 (0.01)	-0.31 (2.03)	0.01 (0.01)	0.05 (0.05)	0.01 (0.00)	-0.04 (0.06)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 8: Outcome variable schdist\_ind

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.46*** (0.42)	1.89*** (0.29)	10.50*** (1.77)	7.29*** (1.70)	1.82*** (0.65)	2.20*** (0.38)	1.28*** (0.33)	7.21*** (1.82)	4.50** (1.85)	0.49 (0.75)
F-Stat	68.63	42.59	35.16	18.37	7.8	33.8	15.14	15.62	5.9	.42
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.29*** (0.08)	0.20** (0.09)	0.14** (0.06)	0.05*** (0.02)	0.07*** (0.02)	-0.09 (0.07)	-0.03 (0.06)	-0.02 (0.04)	0.01 (0.02)	-0.03 (0.02)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	1.45*** (0.42)	0.70** (0.33)	3.15*** (0.77)	0.54** (0.25)	0.69*** (0.23)	0.15 (0.30)	0.03 (0.27)	0.64 (0.49)	-0.26 (0.26)	0.18 (0.17)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.42*** (0.12)	0.37** (0.18)	0.30*** (0.07)	0.07** (0.03)	0.38** (0.16)	0.07 (0.13)	0.03 (0.20)	0.09 (0.07)	-0.06 (0.05)	0.36 (0.62)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 9: Outcome variable schdist\_ind Northeast Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	-0.09 (8.44)	2.32 (2.92)	-28.03 (42.89)	-20.55 (21.20)	-11.14 (8.78)	7.48 (6.97)	2.32 (2.92)	-34.55 (42.04)	24.71** (10.47)	-11.14 (8.78)
F-Stat	0	.63	.43	.9399999999999999	1.61	1.15	.63	.68	5.57	1.61
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel B: OLS</b>										
GM_raw_pp	-0.11 (0.12)	0.01 (0.03)	-0.01 (0.02)	0.01 (0.02)	-0.01 (0.02)	-0.16 (0.16)	0.01 (0.03)	-0.02 (0.02)	0.08*** (0.03)	-0.01 (0.02)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	-3.52 (3.44)	-3.74 (5.24)	-1.35 (2.72)	1.71** (0.81)	0.13 (1.13)	-4.27 (4.03)	-3.74 (5.24)	0.54 (2.91)	1.86 (2.35)	0.13 (1.13)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	37.53 (3213.81)	-1.62 (2.72)	0.05 (0.12)	-0.08 (0.10)	-0.01 (0.10)	-0.57 (0.47)	-1.62 (2.72)	-0.02 (0.08)	0.08 (0.07)	-0.01 (0.10)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 10: Outcome variable schdist\_ind Midwest Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.98*** (0.47)	1.94*** (0.65)	10.34*** (3.73)	8.18*** (1.76)	3.85*** (1.09)	2.12*** (0.42)	1.26* (0.68)	3.91 (3.52)	4.59** (1.93)	1.15 (1.04)
F-Stat	72.430000000000001	8.970000000000001	7.7	21.5	12.45	25.8	3.49	1.23	5.65	1.2
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.38*** (0.12)	0.42** (0.20)	0.30*** (0.07)	0.09*** (0.02)	0.13*** (0.04)	-0.02 (0.20)	-0.08 (0.25)	0.10 (0.08)	0.08** (0.03)	-0.06 (0.04)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	1.52** (0.63)	1.77** (0.76)	4.28*** (1.25)	0.35 (0.32)	1.47*** (0.48)	0.11 (0.51)	0.54 (0.83)	0.57 (1.15)	-0.35 (0.37)	0.37 (0.57)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.38** (0.15)	0.91* (0.52)	0.41*** (0.11)	0.04 (0.03)	0.38** (0.16)	0.05 (0.23)	0.43 (0.68)	0.15 (0.28)	-0.08 (0.10)	0.33 (0.60)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 11: Outcome variable schdist\_ind West Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	0.52 (1.68)	-1.21 (1.57)	8.38** (3.12)	0.72 (5.52)	1.13 (0.75)	0.11 (0.89)	-2.10 (1.66)	-8.89 (9.33)	-9.12 (8.64)	0.40 (0.48)
F-Stat	.1	.59	7.21	.02	2.27	.02	1.61	.91	1.11	.6899999999999999
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.33*** (0.11)	0.40*** (0.13)	0.13*** (0.04)	0.02 (0.01)	0.10*** (0.03)	0.40 (0.37)	0.36*** (0.12)	0.10 (0.12)	0.01 (0.02)	-0.08 (0.05)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.24 (0.74)	-0.07 (0.79)	0.83 (0.98)	-1.05 (0.77)	-0.13 (0.26)	-1.84*** (0.60)	-1.02 (0.82)	-7.94** (3.33)	-1.39** (0.60)	-0.65*** (0.24)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.46 (0.97)	0.05 (0.55)	0.10 (0.10)	-1.47 (10.95)	-0.11 (0.25)	-16.20 (104.89)	0.48** (0.21)	0.89 (0.76)	0.15 (0.17)	-1.63 (1.68)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 12: Outcome variable gen\_subcounty

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.46*** (0.42)	1.89*** (0.29)	10.50*** (1.77)	7.29*** (1.70)	1.82*** (0.65)	2.20*** (0.38)	1.28*** (0.33)	7.21*** (1.82)	4.50** (1.85)	0.49 (0.75)
F-Stat	68.63	42.59	35.16	18.37	7.8	33.8	15.14	15.62	5.9	.42
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.03*** (0.01)	0.02* (0.01)	0.01 (0.01)	0.01** (0.00)	0.01*** (0.00)	-0.01 (0.01)	0.00 (0.01)	-0.01 (0.00)	-0.00 (0.00)	0.00 (0.00)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.16*** (0.05)	0.03 (0.03)	0.25** (0.11)	0.13*** (0.03)	0.04* (0.02)	0.06 (0.06)	-0.02 (0.04)	0.04 (0.11)	0.07** (0.03)	-0.00 (0.02)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.05*** (0.01)	0.02 (0.02)	0.02** (0.01)	0.02*** (0.00)	0.02* (0.01)	0.03 (0.03)	-0.01 (0.03)	0.01 (0.01)	0.02** (0.01)	-0.00 (0.05)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 13: Outcome variable gen\_subcounty Northeast Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	-0.09 (8.44)	2.32 (2.92)	-28.03 (42.89)	-20.55 (21.20)	-11.14 (8.78)	7.48 (6.97)	2.32 (2.92)	-34.55 (42.04)	24.71** (10.47)	-11.14 (8.78)
F-Stat	0	.63	.43	.9399999999999999	1.61	1.15	.63	.68	5.57	1.61
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel B: OLS</b>										
GM_raw_pp	-0.03*** (0.01)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.02** (0.01)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01 (0.01)	-0.01*** (0.00)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.17 (0.35)	-0.36 (0.28)	-0.05 (0.58)	0.17 (0.11)	0.02 (0.12)	-0.15 (0.33)	-0.36 (0.28)	0.16 (0.70)	0.21 (0.17)	0.02 (0.12)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	-1.80 (150.87)	-0.15 (0.26)	0.00 (0.02)	-0.01* (0.00)	-0.00 (0.01)	-0.02 (0.04)	-0.15 (0.26)	-0.00 (0.02)	0.01 (0.01)	-0.00 (0.01)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 14: Outcome variable gen\_subcounty Midwest Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.98*** (0.47)	1.94*** (0.65)	10.34*** (3.73)	8.18*** (1.76)	3.85*** (1.09)	2.12*** (0.42)	1.26* (0.68)	3.91 (3.52)	4.59** (1.93)	1.15 (1.04)
F-Stat	72.430000000000001	8.970000000000001	7.7	21.5	12.45	25.8	3.49	1.23	5.65	1.2
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.04*** (0.01)	0.05*** (0.02)	0.03*** (0.01)	0.01*** (0.00)	0.01*** (0.00)	0.03* (0.02)	0.04* (0.02)	0.01 (0.01)	0.01** (0.00)	0.00 (0.00)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.20*** (0.06)	0.14 (0.08)	0.39* (0.23)	0.10** (0.04)	0.14*** (0.05)	0.15** (0.06)	0.14 (0.09)	0.15 (0.22)	0.07 (0.05)	0.08 (0.06)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.05*** (0.01)	0.07** (0.03)	0.04** (0.02)	0.01*** (0.00)	0.04** (0.01)	0.07** (0.03)	0.11* (0.06)	0.04 (0.05)	0.01* (0.01)	0.07 (0.07)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 15: Outcome variable gen\_subcounty West Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	0.52 (1.68)	-1.21 (1.57)	8.38** (3.12)	0.72 (5.52)	1.13 (0.75)	0.11 (0.89)	-2.10 (1.66)	-8.89 (9.33)	-9.12 (8.64)	0.40 (0.48)
F-Stat	.1	.59	7.21	.02	2.27	.02	1.61	.91	1.11	.6899999999999999
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.03*** (0.01)	0.02** (0.01)	0.02*** (0.01)	0.01** (0.00)	0.01*** (0.00)	0.03 (0.03)	0.01*** (0.00)	0.01 (0.01)	0.01** (0.01)	0.01 (0.01)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.03 (0.05)	-0.01 (0.03)	0.10 (0.13)	-0.05 (0.10)	0.02 (0.02)	-0.03 (0.07)	-0.05 (0.04)	-0.34 (0.38)	-0.13 (0.15)	-0.01 (0.02)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.05 (0.10)	0.01 (0.01)	0.01 (0.01)	-0.07 (0.53)	0.01 (0.01)	-0.26 (1.85)	0.02 (0.01)	0.04 (0.04)	0.01 (0.01)	-0.01 (0.04)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 16: Outcome variable spdist

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.46*** (0.42)	1.89*** (0.29)	10.50*** (1.77)	7.29*** (1.70)	1.82*** (0.65)	2.20*** (0.38)	1.28*** (0.33)	7.21*** (1.82)	4.50** (1.85)	0.49 (0.75)
F-Stat	68.63	42.59	35.16	18.37	7.8	33.8	15.14	15.62	5.9	.42
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp	-0.03*** (0.01)	-0.02** (0.01)	0.01 (0.01)	-0.01*** (0.00)	-0.00 (0.00)	-0.04*** (0.01)	-0.02** (0.01)	-0.00 (0.01)	-0.01*** (0.00)	-0.00 (0.00)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	-0.08** (0.03)	-0.01 (0.02)	-0.06 (0.11)	-0.04 (0.03)	-0.02 (0.02)	-0.04 (0.04)	0.01 (0.02)	0.04 (0.14)	-0.00 (0.04)	0.00 (0.02)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	-0.02** (0.01)	-0.01 (0.01)	-0.01 (0.01)	-0.01 (0.00)	-0.01 (0.01)	-0.02 (0.02)	0.00 (0.02)	0.01 (0.02)	-0.00 (0.01)	0.01 (0.04)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 17: Outcome variable spdist Northeast Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	-0.09 (8.44)	2.32 (2.92)	-28.03 (42.89)	-20.55 (21.20)	-11.14 (8.78)	7.48 (6.97)	2.32 (2.92)	-34.55 (42.04)	24.71** (10.47)	-11.14 (8.78)
F-Stat	0	.63	.43	.9399999999999999	1.61	1.15	.63	.68	5.57	1.61
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel B: OLS</b>										
GM_raw_pp	-0.02 (0.03)	-0.01 (0.00)	0.03** (0.01)	-0.01 (0.01)	0.01 (0.01)	-0.07*** (0.02)	-0.01 (0.00)	0.03** (0.01)	-0.02*** (0.01)	0.01 (0.01)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	-1.32* (0.64)	-0.80** (0.31)	-1.22 (2.00)	-0.51* (0.29)	-0.13 (0.37)	-0.96 (0.67)	-0.80** (0.31)	3.01 (2.20)	-0.58 (0.54)	-0.13 (0.37)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	14.06 (1197.66)	-0.34 (0.44)	0.04 (0.05)	0.02 (0.04)	0.01 (0.03)	-0.13 (0.11)	-0.34 (0.44)	-0.09 (0.14)	-0.02 (0.01)	0.01 (0.03)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 18: Outcome variable spdist Midwest Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.98*** (0.47)	1.94*** (0.65)	10.34*** (3.73)	8.18*** (1.76)	3.85*** (1.09)	2.12*** (0.42)	1.26* (0.68)	3.91 (3.52)	4.59** (1.93)	1.15 (1.04)
F-Stat	72.43000000000001	8.970000000000001	7.7	21.5	12.45	25.8	3.49	1.23	5.65	1.2
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel B: OLS</b>										
GM_raw_pp	-0.02*** (0.01)	-0.00 (0.01)	-0.01** (0.01)	-0.01*** (0.00)	-0.01** (0.00)	0.00 (0.02)	-0.01 (0.01)	-0.00 (0.01)	-0.01 (0.00)	-0.00 (0.00)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	-0.08** (0.03)	-0.07** (0.03)	-0.14 (0.15)	-0.04 (0.03)	-0.07*** (0.02)	-0.03 (0.05)	-0.05 (0.04)	0.04 (0.17)	0.03 (0.05)	0.00 (0.04)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	-0.02*** (0.01)	-0.04* (0.02)	-0.01 (0.01)	-0.01* (0.00)	-0.02** (0.01)	-0.01 (0.02)	-0.04 (0.03)	0.01 (0.05)	0.01 (0.01)	0.00 (0.03)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 19: Outcome variable spdist West Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	0.52 (1.68)	-1.21 (1.57)	8.38** (3.12)	0.72 (5.52)	1.13 (0.75)	0.11 (0.89)	-2.10 (1.66)	-8.89 (9.33)	-9.12 (8.64)	0.40 (0.48)
F-Stat	.1	.59	7.21	.02	2.27	.02	1.61	.91	1.11	.6899999999999999
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel B: OLS</b>										
GM_raw_pp	-0.06*** (0.01)	-0.08*** (0.02)	-0.02 (0.02)	-0.01 (0.01)	-0.02 (0.01)	-0.02 (0.04)	-0.08*** (0.01)	0.03 (0.03)	-0.01 (0.01)	0.00 (0.02)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.05 (0.13)	0.12 (0.17)	-0.29 (0.38)	-0.32 (0.33)	0.10* (0.05)	-0.14 (0.23)	0.08 (0.21)	-0.67 (0.98)	-0.20 (0.36)	0.11** (0.05)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.10 (0.49)	-0.10* (0.06)	-0.04 (0.04)	-0.44 (3.29)	0.09 (0.07)	-1.25 (8.49)	-0.04 (0.07)	0.08 (0.08)	0.02 (0.04)	0.28 (0.33)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 20: Outcome variable gen\_town

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.46*** (0.42)	1.89*** (0.29)	10.50*** (1.77)	7.29*** (1.70)	1.82*** (0.65)	2.20*** (0.38)	1.28*** (0.33)	7.21*** (1.82)	4.50** (1.85)	0.49 (0.75)
F-Stat	68.63	42.59	35.16	18.37	7.8	33.8	15.14	15.62	5.9	.42
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.02*** (0.01)	0.01 (0.01)	0.01 (0.00)	0.00** (0.00)	0.00*** (0.00)	0.00 (0.01)	0.00 (0.00)	-0.00 (0.00)	0.00 (0.00)	-0.00 (0.00)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.10*** (0.03)	0.04* (0.02)	0.18*** (0.07)	0.06*** (0.02)	0.04*** (0.01)	0.07** (0.03)	0.02 (0.02)	0.09 (0.07)	0.04*** (0.01)	0.02* (0.01)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.03*** (0.01)	0.02** (0.01)	0.02*** (0.01)	0.01*** (0.00)	0.02** (0.01)	0.03** (0.01)	0.02 (0.01)	0.01 (0.01)	0.01** (0.00)	0.03 (0.05)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 21: Outcome variable gen\_town Northeast Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	-0.09 (8.44)	2.32 (2.92)	-28.03 (42.89)	-20.55 (21.20)	-11.14 (8.78)	7.48 (6.97)	2.32 (2.92)	-34.55 (42.04)	24.71** (10.47)	-11.14 (8.78)
F-Stat	0	.63	.43	.9399999999999999	1.61	1.15	.63	.68	5.57	1.61
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel B: OLS</b>										
GM_raw_pp	-0.01* (0.01)	-0.01*** (0.00)	-0.01*** (0.00)	-0.00** (0.00)	-0.00*** (0.00)	-0.01 (0.01)	-0.01*** (0.00)	-0.01*** (0.00)	-0.00 (0.00)	-0.00*** (0.00)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.06 (0.21)	-0.30* (0.16)	0.05 (0.31)	0.09 (0.06)	0.01 (0.07)	-0.11 (0.20)	-0.30* (0.16)	0.11 (0.42)	0.14 (0.14)	0.01 (0.07)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	-0.62 (51.99)	-0.13 (0.19)	-0.00 (0.01)	-0.00 (0.00)	-0.00 (0.01)	-0.01 (0.03)	-0.13 (0.19)	-0.00 (0.01)	0.01 (0.01)	-0.00 (0.01)
Observations	29.00	29.00	29.00	29.00	87.00	29.00	29.00	29.00	29.00	87.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 22: Outcome variable gen\_town Midwest Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	3.98*** (0.47)	1.94*** (0.65)	10.34*** (3.73)	8.18*** (1.76)	3.85*** (1.09)	2.12*** (0.42)	1.26* (0.68)	3.91 (3.52)	4.59** (1.93)	1.15 (1.04)
F-Stat	72.430000000000001	8.970000000000001	7.7	21.5	12.45	25.8	3.49	1.23	5.65	1.2
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.02*** (0.01)	0.04*** (0.01)	0.02*** (0.01)	0.00*** (0.00)	0.01*** (0.00)	0.02* (0.01)	0.02* (0.01)	0.01 (0.01)	0.00* (0.00)	0.00 (0.00)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.13*** (0.04)	0.10* (0.05)	0.29* (0.16)	0.06*** (0.02)	0.09*** (0.03)	0.12** (0.04)	0.09 (0.06)	0.19 (0.17)	0.04** (0.02)	0.06* (0.03)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.03*** (0.01)	0.05** (0.02)	0.03** (0.01)	0.01*** (0.00)	0.02** (0.01)	0.05** (0.02)	0.08 (0.05)	0.05 (0.04)	0.01** (0.00)	0.06 (0.05)
Observations	73.00	73.00	73.00	73.00	219.00	73.00	73.00	73.00	73.00	219.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

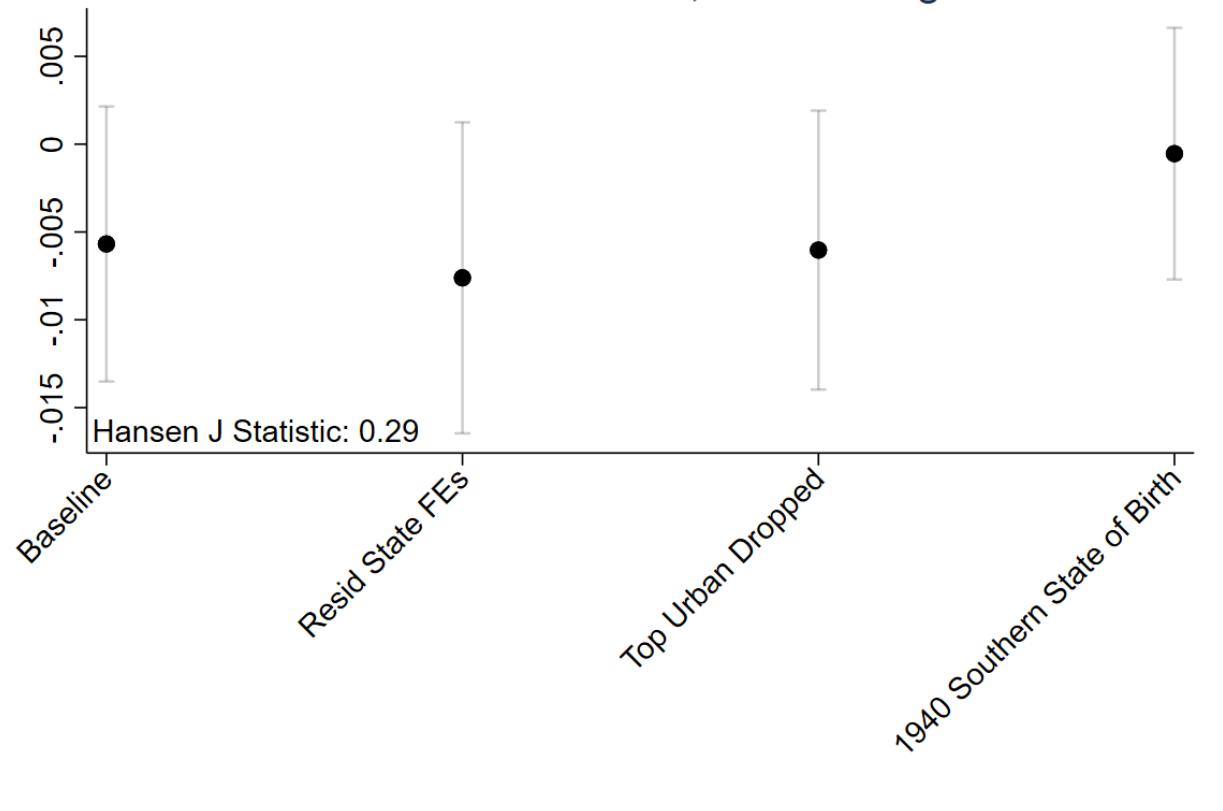
Table 23: Outcome variable gen\_town West Region

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp	0.52 (1.68)	-1.21 (1.57)	8.38** (3.12)	0.72 (5.52)	1.13 (0.75)	0.11 (0.89)	-2.10 (1.66)	-8.89 (9.33)	-9.12 (8.64)	0.40 (0.48)
F-Stat	.1	.59	7.21	.02	2.27	.02	1.61	.91	1.11	.6899999999999999
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel B: OLS</b>										
GM_raw_pp	0.01 (0.01)	0.00 (0.00)	0.00 (0.00)	0.01 (0.00)	0.01* (0.00)	0.02 (0.03)	0.01 (0.00)	0.00 (0.01)	0.01 (0.01)	0.01 (0.01)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp	0.01 (0.02)	-0.00 (0.01)	0.03 (0.03)	-0.06 (0.08)	0.01 (0.01)	0.03 (0.04)	-0.00 (0.01)	0.09 (0.28)	-0.12 (0.13)	0.01 (0.01)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00
<b>Panel D: 2SLS</b>										
GM_raw_pp	0.02 (0.05)	0.00 (0.00)	0.00 (0.00)	-0.08 (0.62)	0.01 (0.01)	0.23 (1.42)	0.00 (0.00)	-0.01 (0.02)	0.01 (0.02)	0.04 (0.04)
Observations	23.00	23.00	23.00	23.00	69.00	23.00	23.00	23.00	23.00	69.00

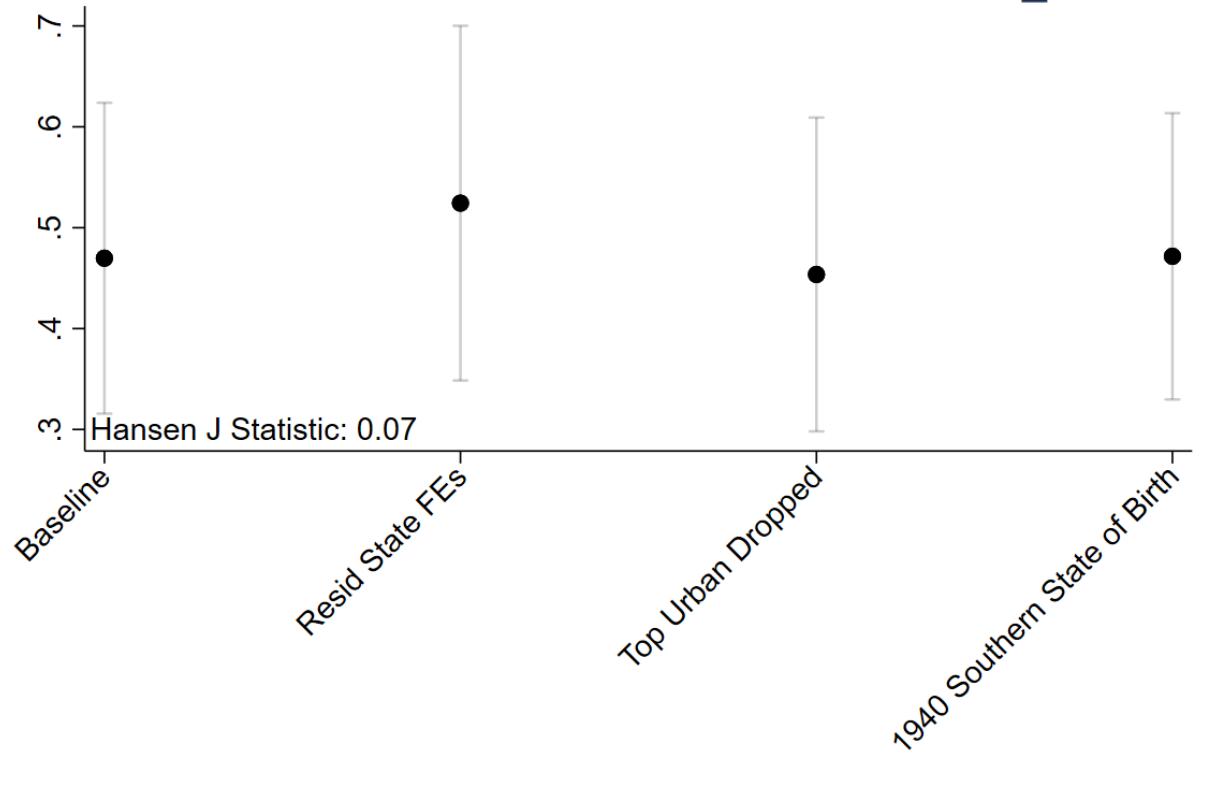
Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

## 1.4 Alternative Instrument Figures

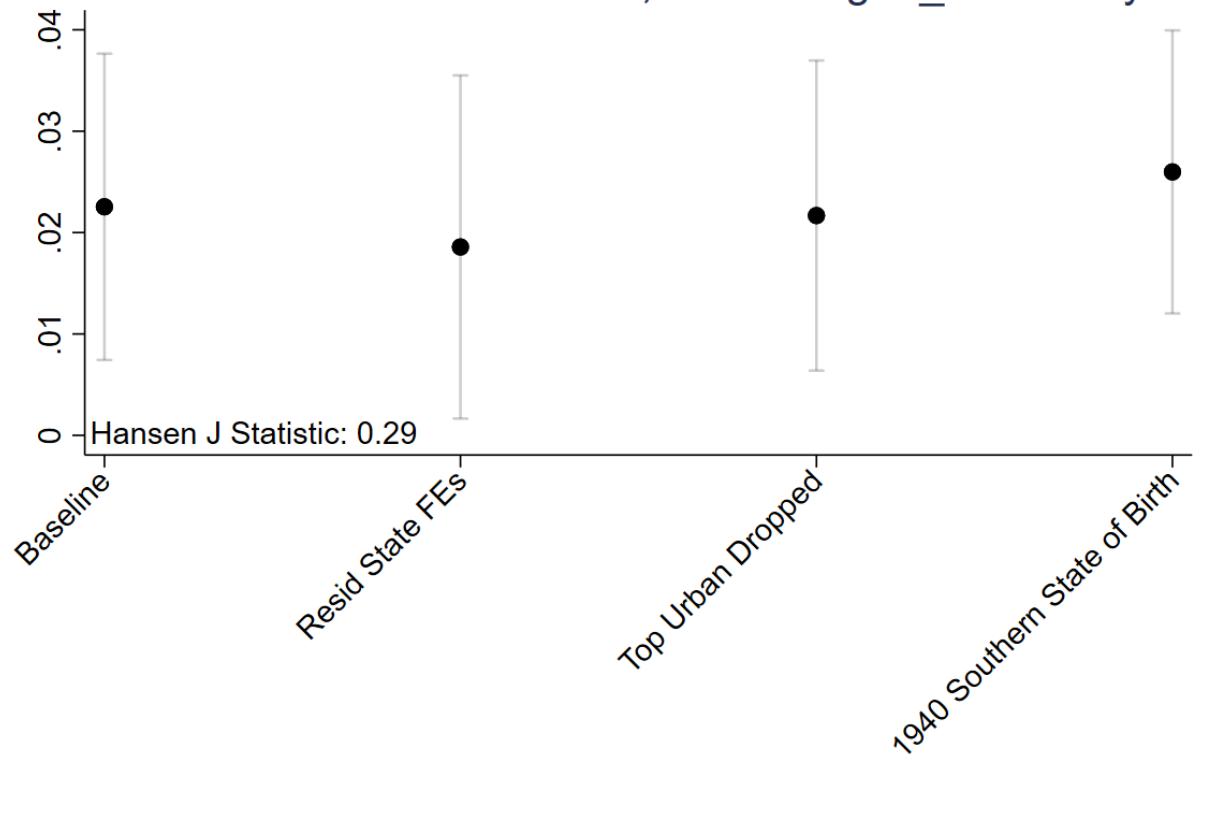
### Alternative instrument test, outcome cgoodman



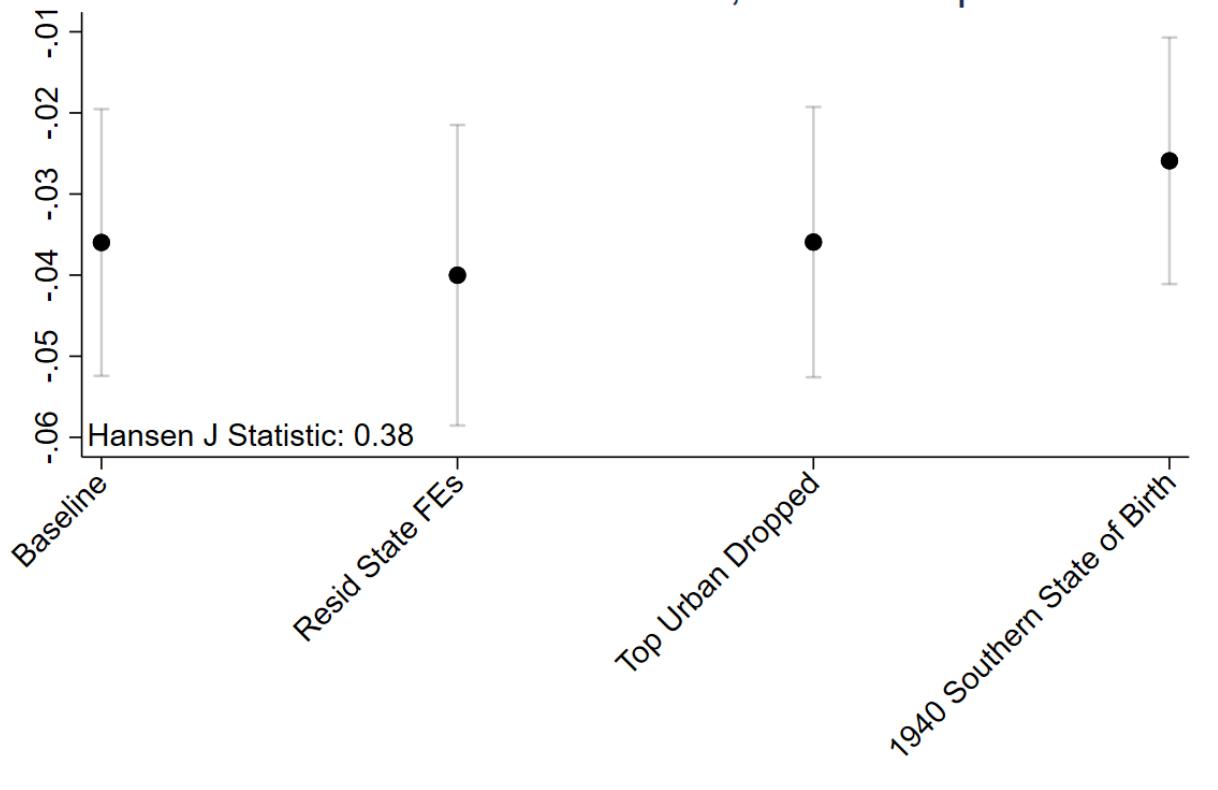
### Alternative instrument test, outcome schdist\_ind



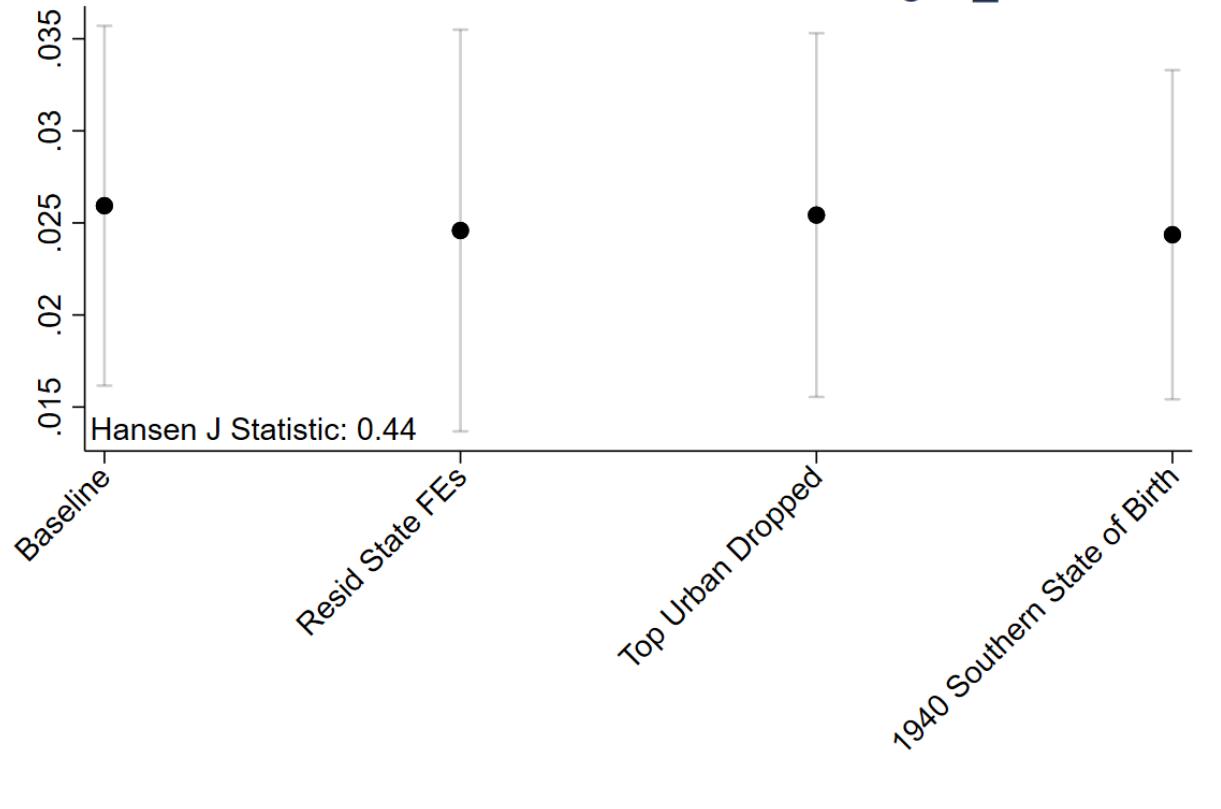
### Alternative instrument test, outcome gen\_subcounty



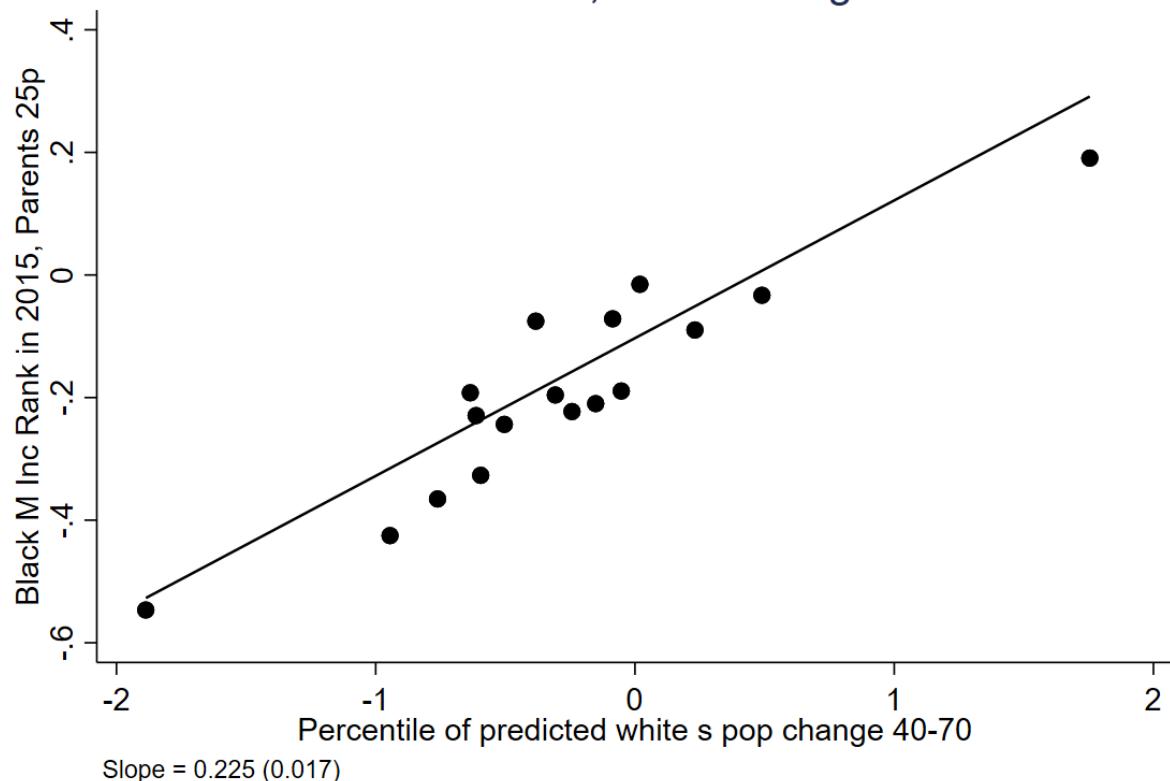
### Alternative instrument test, outcome spdist



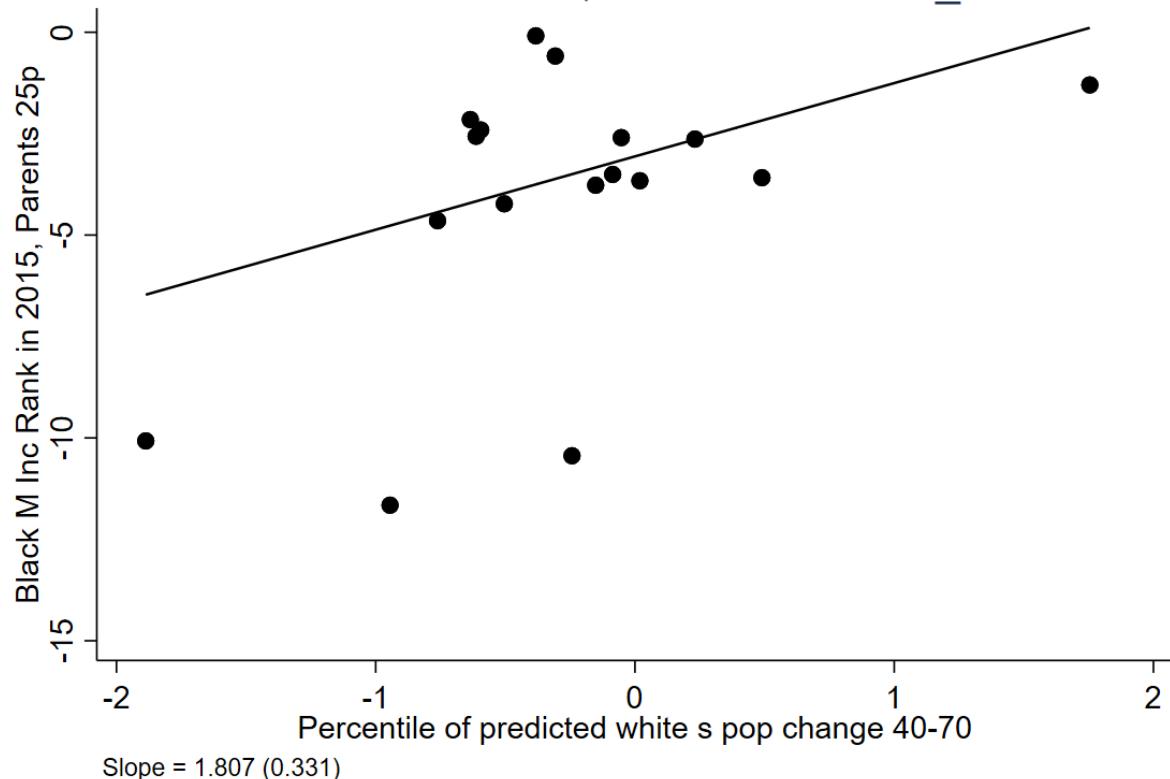
### Alternative instrument test, outcome gen\_town



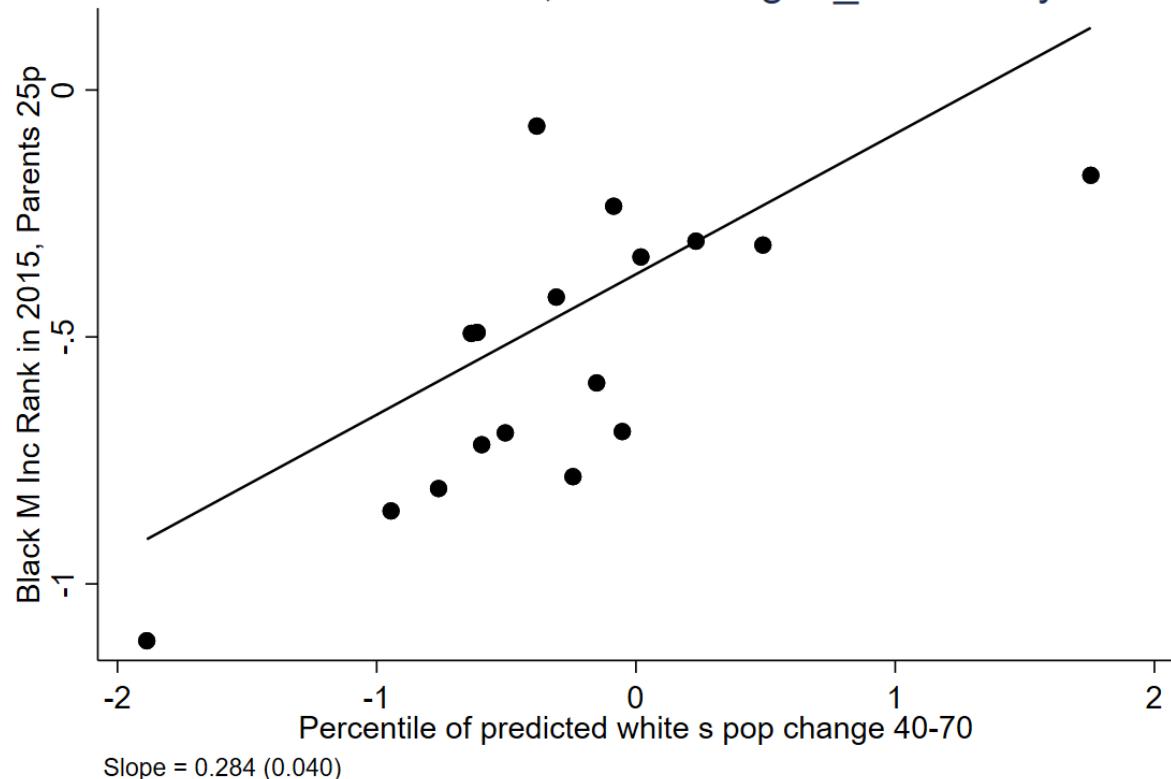
White instrument, outcome: cgoodman



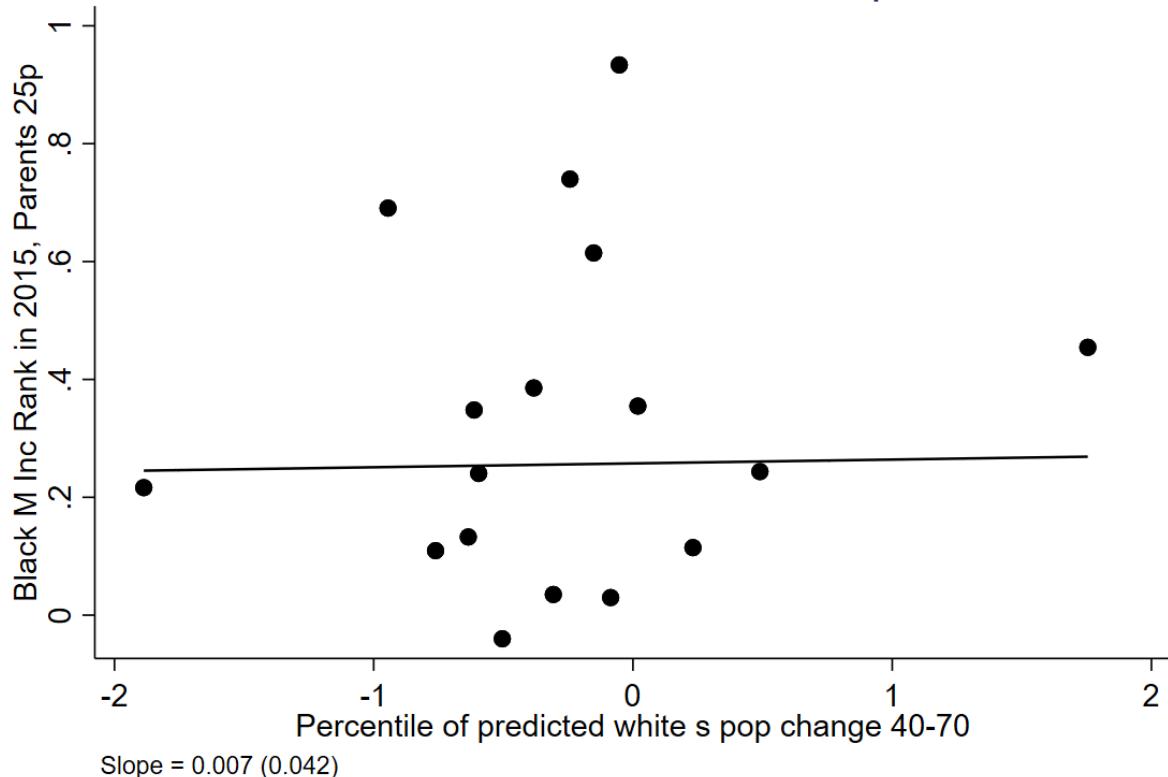
White instrument, outcome: schdist\_ind



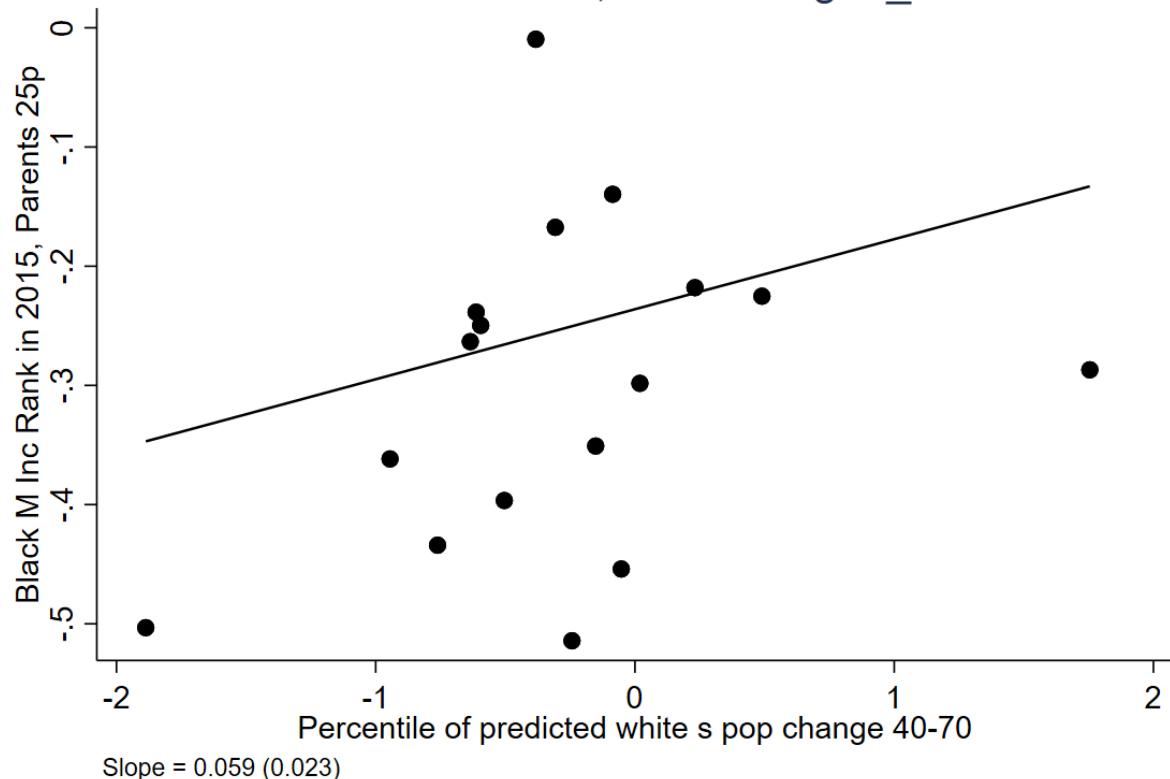
White instrument, outcome: gen\_subcounty



White instrument, outcome: spdist



White instrument, outcome: gen\_town



## 1.5 Baseline Instrument

Table 24: Outcome: cgoodman, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		0.0407* (0.0227)	
Percentage Point Change in Urban Black Population		0.00613* (0.00349)		0.0117* (0.00638)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 25: Outcome: schdist.ind, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		1.446*** (0.423)	
Percentage Point Change in Urban Black Population		0.288*** (0.0840)		0.418*** (0.115)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 26: Outcome: gen\_subcounty, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		0.157*** (0.0497)	
Percentage Point Change in Urban Black Population		0.0257*** (0.00827)		0.0454*** (0.0135)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 27: Outcome: spdist, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		-0.0756** (0.0319)	
Percentage Point Change in Urban Black Population		-0.0268*** (0.00814)		-0.0218** (0.00866)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 28: Outcome: gen\_town, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		0.104*** (0.0298)	
Percentage Point Change in Urban Black Population		0.0163*** (0.00525)		0.0301*** (0.00812)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

## 1.6 Baseline Instrument, Total Population Outcome

Table 29: Outcome: cgoodman, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		0.0407* (0.0227)	
Percentage Point Change in Urban Black Population		0.00613* (0.00349)		0.0117* (0.00638)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 30: Outcome: schdist\_ind, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		1.446*** (0.423)	
Percentage Point Change in Urban Black Population		0.288*** (0.0840)		0.418*** (0.115)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 31: Outcome: gen\_subcounty, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		0.157*** (0.0497)	
Percentage Point Change in Urban Black Population		0.0257*** (0.00827)		0.0454*** (0.0135)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 32: Outcome: spdist, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		-0.0756** (0.0319)	
Percentage Point Change in Urban Black Population		-0.0268*** (0.00814)		-0.0218** (0.00866)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 33: Outcome: gen\_town, Baseline Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Baseline Instrument	3.464*** (0.418)		0.104*** (0.0298)	
Percentage Point Change in Urban Black Population		0.0163*** (0.00525)		0.0301*** (0.00812)
F-Stat	68.633			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

## 1.7 Resid State FEs Instrument

Table 34: Outcome: cgoodman, Resid State FE Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Resid State FE Instrument	5.180*** (0.910)		0.121** (0.0595)	
Percentage Point Change in Urban Black Population		0.00613* (0.00349)		0.0234* (0.0128)
F-Stat	32.38			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 35: Outcome: schdist.ind, Resid State FE Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Resid State FE Instrument	5.180*** (0.910)		2.762*** (0.785)	
Percentage Point Change in Urban Black Population		0.288*** (0.0840)		0.533*** (0.140)
F-Stat	32.38			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 36: Outcome: gen\_subcounty, Resid State FE Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Resid State FE Instrument	5.180*** (0.910)		0.292*** (0.0866)	
Percentage Point Change in Urban Black Population		0.0257*** (0.00827)		0.0563*** (0.0187)
F-Stat	32.38			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 37: Outcome: spdist, Resid State FE Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Resid State FE Instrument	5.180*** (0.910)		-0.104* (0.0586)	
Percentage Point Change in Urban Black Population		-0.0268*** (0.00814)		-0.0200* (0.0108)
F-Stat	32.38			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 38: Outcome: gen\_town, Resid State FE Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Resid State FE Instrument	5.180*** (0.910)		0.156*** (0.0430)	
Percentage Point Change in Urban Black Population		0.0163*** (0.00525)		0.0301*** (0.00812)
F-Stat	32.38			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

## 1.8 Top Urban Dropped Instrument

Table 39: Outcome: cgoodman, Top Urban Dropped Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Top Urban Dropped Instrument	3.459*** (0.488)		0.0347 (0.0233)	
Percentage Point Change in Urban Black Population		0.00613* (0.00349)		0.0100 (0.00644)
F-Stat	50.233			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 40: Outcome: schdist\_ind, Top Urban Dropped Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Top Urban Dropped Instrument	3.459*** (0.488)		1.345*** (0.417)	
Percentage Point Change in Urban Black Population		0.288*** (0.0840)		0.389*** (0.112)
F-Stat	50.233			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 41: Outcome: gen\_subcounty, Top Urban Dropped Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Top Urban Dropped Instrument	3.459*** (0.488)		0.147*** (0.0518)	
Percentage Point Change in Urban Black Population		0.0257*** (0.00827)		0.0424*** (0.0135)
F-Stat	50.233			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 42: Outcome: spdist, Top Urban Dropped Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Top Urban Dropped Instrument	3.459*** (0.488)		-0.0780** (0.0323)	
Percentage Point Change in Urban Black Population		-0.0268*** (0.00814)		-0.0226*** (0.00844)
F-Stat	50.233			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 43: Outcome: gen\_town, Top Urban Dropped Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Top Urban Dropped Instrument	3.459*** (0.488)		0.0997*** (0.0312)	
Percentage Point Change in Urban Black Population		0.0163*** (0.00525)		0.0288*** (0.00820)
F-Stat	50.233			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

## 1.9 1940 Southern State of Birth Instrument

Table 44: Outcome: cgoodman, 1940 Southern State of Birth Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
1940 Southern State of Birth Instrument	10.05*** (1.202)		0.145** (0.0609)	
Percentage Point Change in Urban Black Population		0.00613* (0.00349)		0.0144** (0.00656)
F-Stat	69.879			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 45: Outcome: schdist\_ind, 1940 Southern State of Birth Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
1940 Southern State of Birth Instrument	10.05*** (1.202)		4.410*** (1.344)	
Percentage Point Change in Urban Black Population		0.288*** (0.0840)		0.439*** (0.114)
F-Stat	69.879			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 46: Outcome: gen\_subcounty, 1940 Southern State of Birth Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
1940 Southern State of Birth Instrument	10.05*** (1.202)		0.436*** (0.126)	
Percentage Point Change in Urban Black Population		0.0257*** (0.00827)		0.0433*** (0.0131)
F-Stat	69.879			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 47: Outcome: spdist, 1940 Southern State of Birth Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
1940 Southern State of Birth Instrument	10.05*** (1.202)		-0.0984 (0.103)	
Percentage Point Change in Urban Black Population		-0.0268*** (0.00814)		-0.00979 (0.00975)
F-Stat	69.879			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 48: Outcome: gen\_town, 1940 Southern State of Birth Instrument

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
1940 Southern State of Birth Instrument	10.05*** (1.202)		0.261*** (0.0778)	
Percentage Point Change in Urban Black Population		0.0163*** (0.00525)		0.0260*** (0.00767)
F-Stat	69.879			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

## 1.10 European Migrant Instrument as Control

Table 49: Outcome: cgoodman, Baseline Instrument with european migrant control

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	2.791*** (0.525)		0.00542 (0.0246)	
Percentage Point Change in Urban Black Population		-0.00401 (0.00482)		0.00194 (0.00857)
F-Stat	28.304			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 50: Outcome: schdist\_ind, Baseline Instrument with european migrant control

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	2.791*** (0.525)		1.009** (0.444)	
Percentage Point Change in Urban Black Population		0.189** (0.0830)		0.361** (0.157)
F-Stat	28.304			
Observations	130	130	130	130

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 51: Outcome: gen\_subcounty, Baseline Instrument with european migrant control

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	2.791*** (0.525)		0.0979* (0.0531)	
Percentage Point Change in Urban Black Population		0.00930 (0.00909)		0.0351* (0.0183)
F-Stat	28.304			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 52: Outcome: spdist, Baseline Instrument with european migrant control

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	2.791*** (0.525)		-0.0676* (0.0372)	
Percentage Point Change in Urban Black Population		-0.0308*** (0.00834)		-0.0242* (0.0126)
F-Stat	28.304			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 53: Outcome: gen\_town, Baseline Instrument with european migrant control

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	2.791*** (0.525)		0.0792** (0.0317)	
Percentage Point Change in Urban Black Population		0.00922* (0.00531)		0.0284** (0.0113)
F-Stat	28.304			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

## 1.11 Southern White Migration Instrument as Control

Table 54: Outcome: cgoodman, Baseline Instrument with european migrant control

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	3.461*** (0.419)		0.0281* (0.0147)	
Percentage Point Change in Urban Black Population		0.00432 (0.00317)		0.00811** (0.00400)
F-Stat	68.28700000000001			
Observations	130	130	130	130

Standard errors in parentheses

\* pj0.10, \*\* pj0.05, \*\*\* pj0.01

Table 55: Outcome: schdist\_ind, Baseline Instrument with european migrant control

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	3.461*** (0.419)		1.355*** (0.437)	
Percentage Point Change in Urban Black Population		0.274*** (0.0859)		0.391*** (0.118)
F-Stat	68.28700000000001			
Observations	130	130	130	130

Standard errors in parentheses

\* pj0.10, \*\* pj0.05, \*\*\* pj0.01

Table 56: Outcome: gen\_subcounty, Baseline Instrument with european migrant control

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	3.461*** (0.419)		0.142*** (0.0449)	
Percentage Point Change in Urban Black Population		0.0235*** (0.00867)		0.0411*** (0.0117)
F-Stat	68.28700000000001			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 57: Outcome: spdist, Baseline Instrument with european migrant control

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	3.461*** (0.419)		-0.0766** (0.0317)	
Percentage Point Change in Urban Black Population		-0.0270*** (0.00810)		-0.0221*** (0.00851)
F-Stat	68.28700000000001			
Observations	130	130	130	130

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 58: Outcome: gen\_town, Baseline Instrument with european migrant control

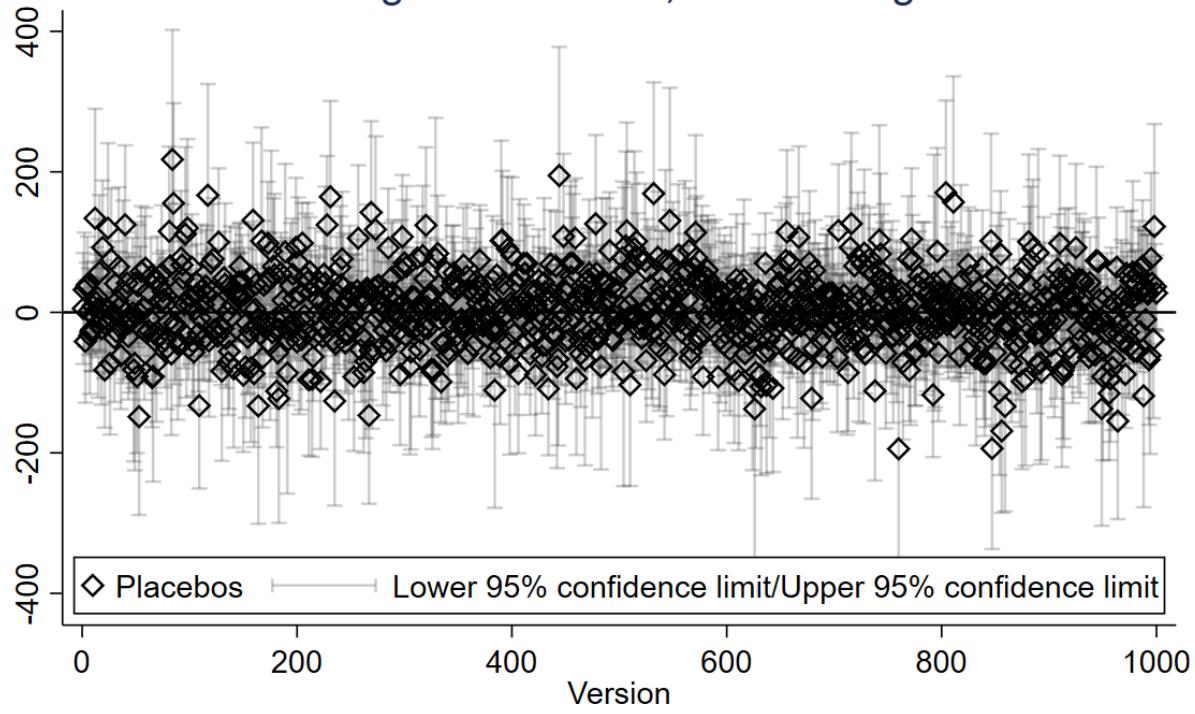
	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	3.461*** (0.419)		0.102*** (0.0297)	
Percentage Point Change in Urban Black Population		0.0159*** (0.00540)		0.0294*** (0.00795)
F-Stat	68.28700000000001			
Observations		130	130	130

Standard errors in parentheses

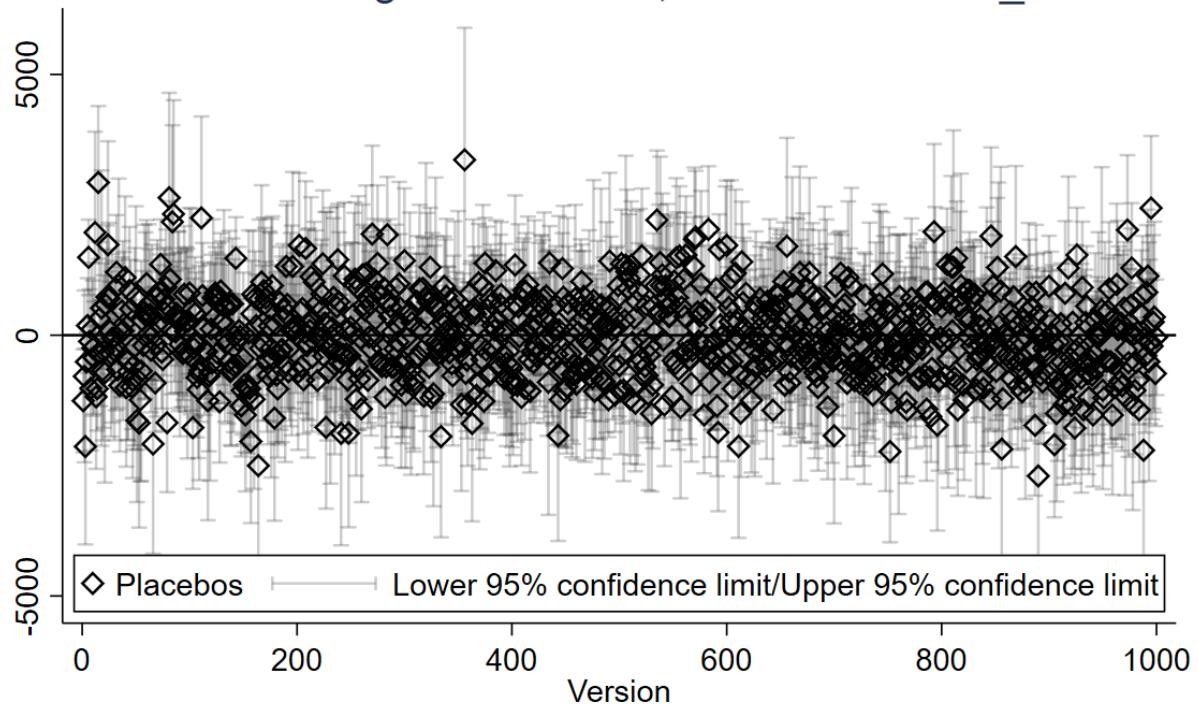
\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

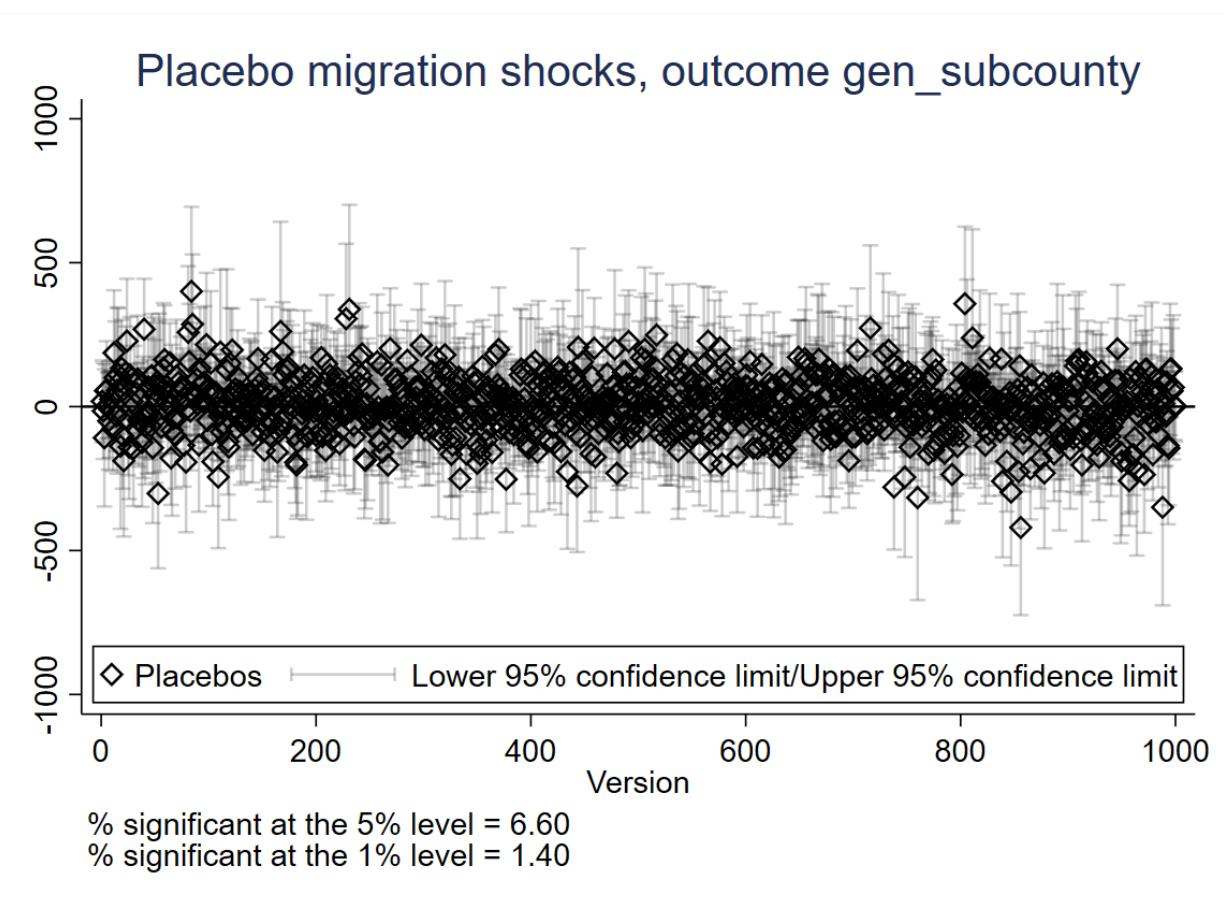
## 1.12 Placebo Tests

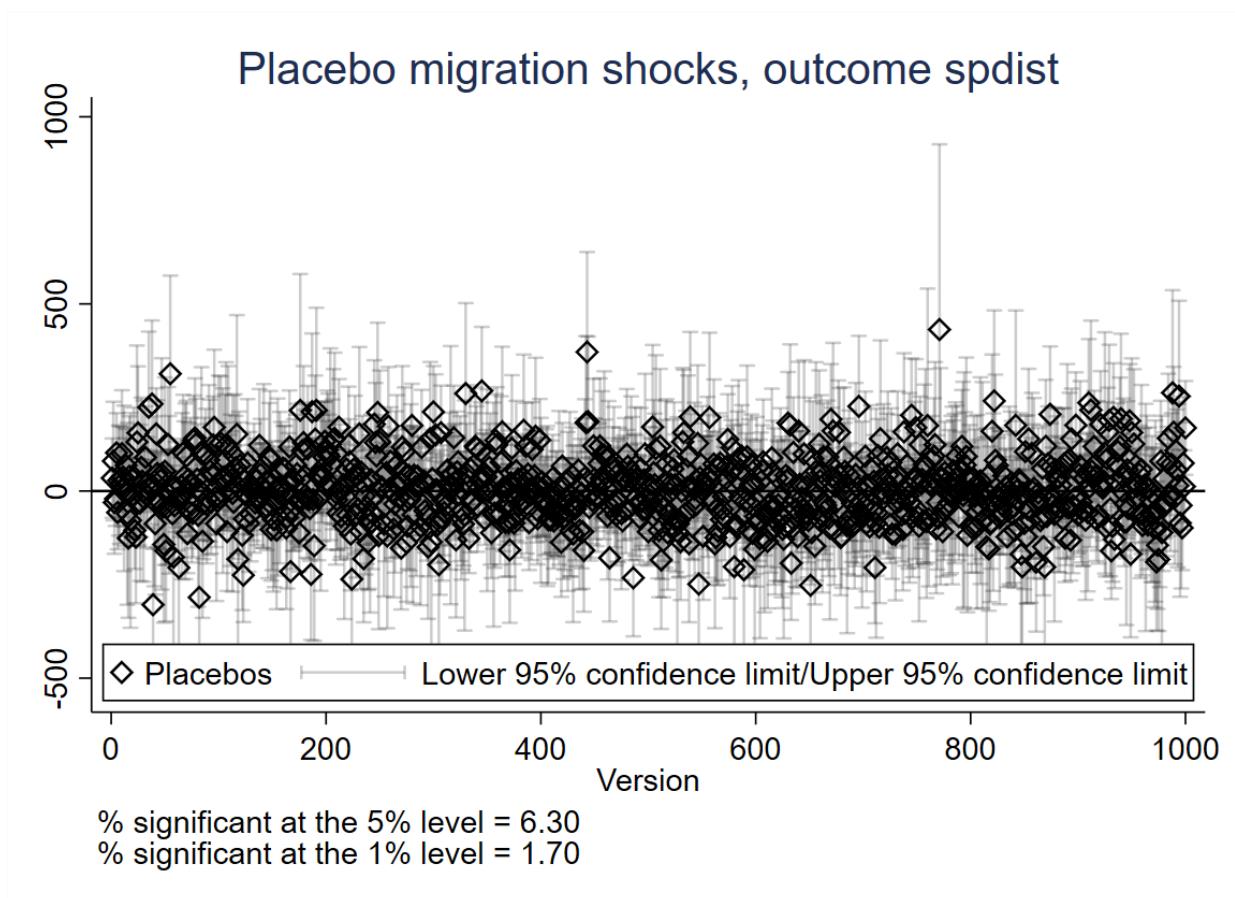
### Placebo migration shocks, outcome cgoodman



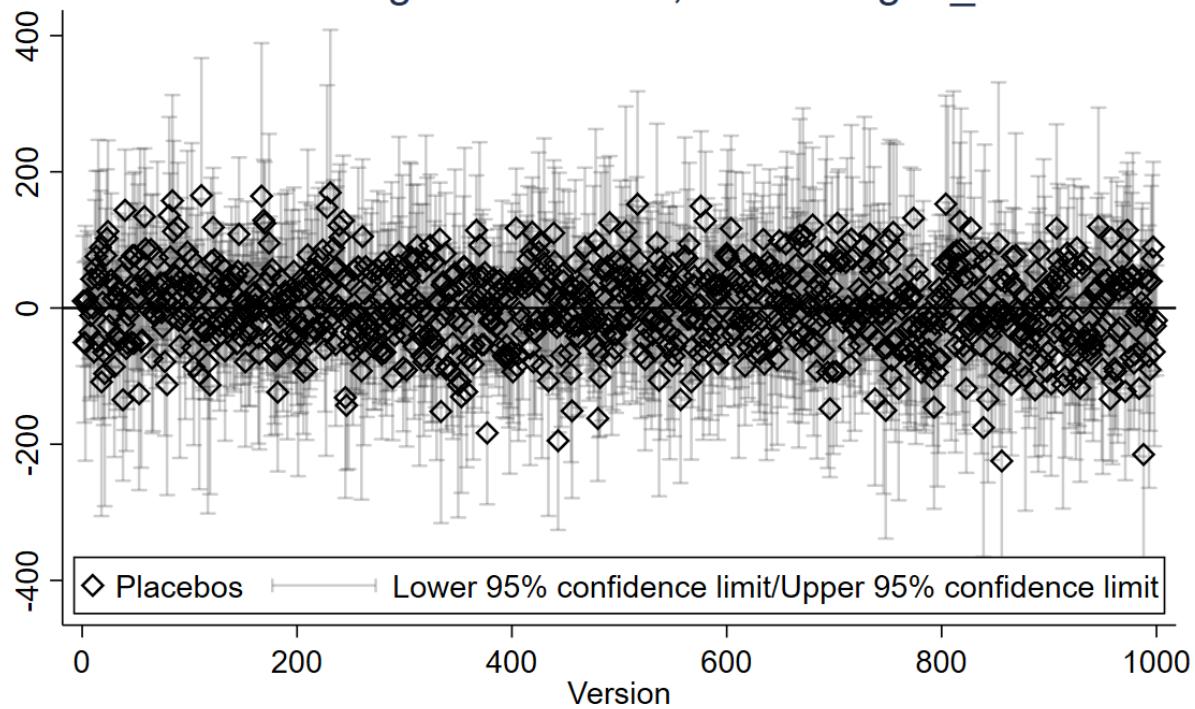
### Placebo migration shocks, outcome schdist\_ind





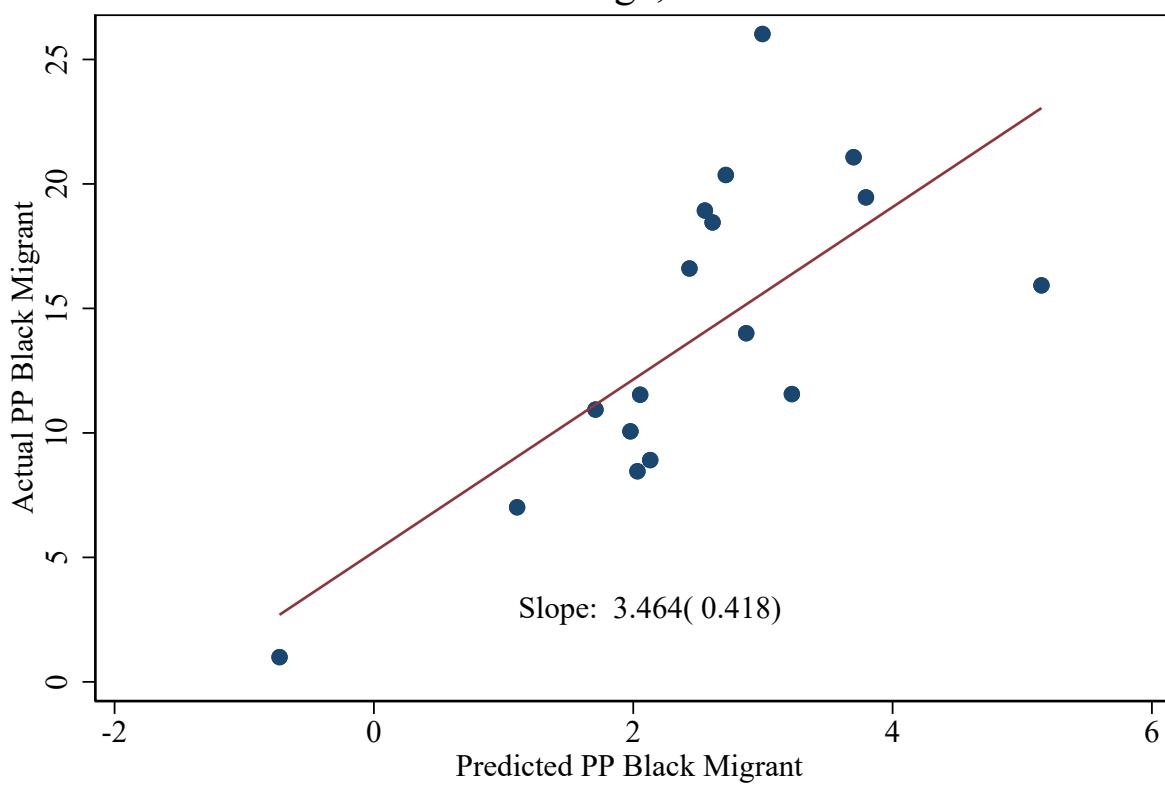


### Placebo migration shocks, outcome gen\_town

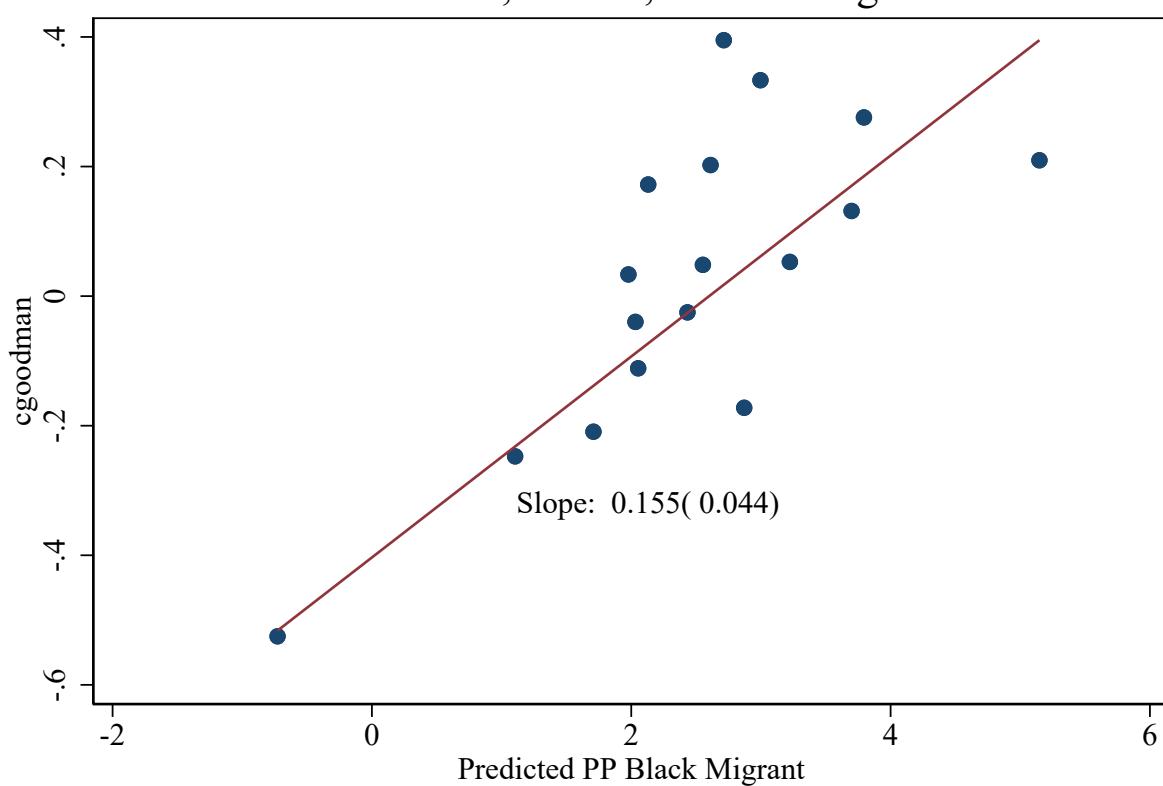


## 1.13 PP Binscatters

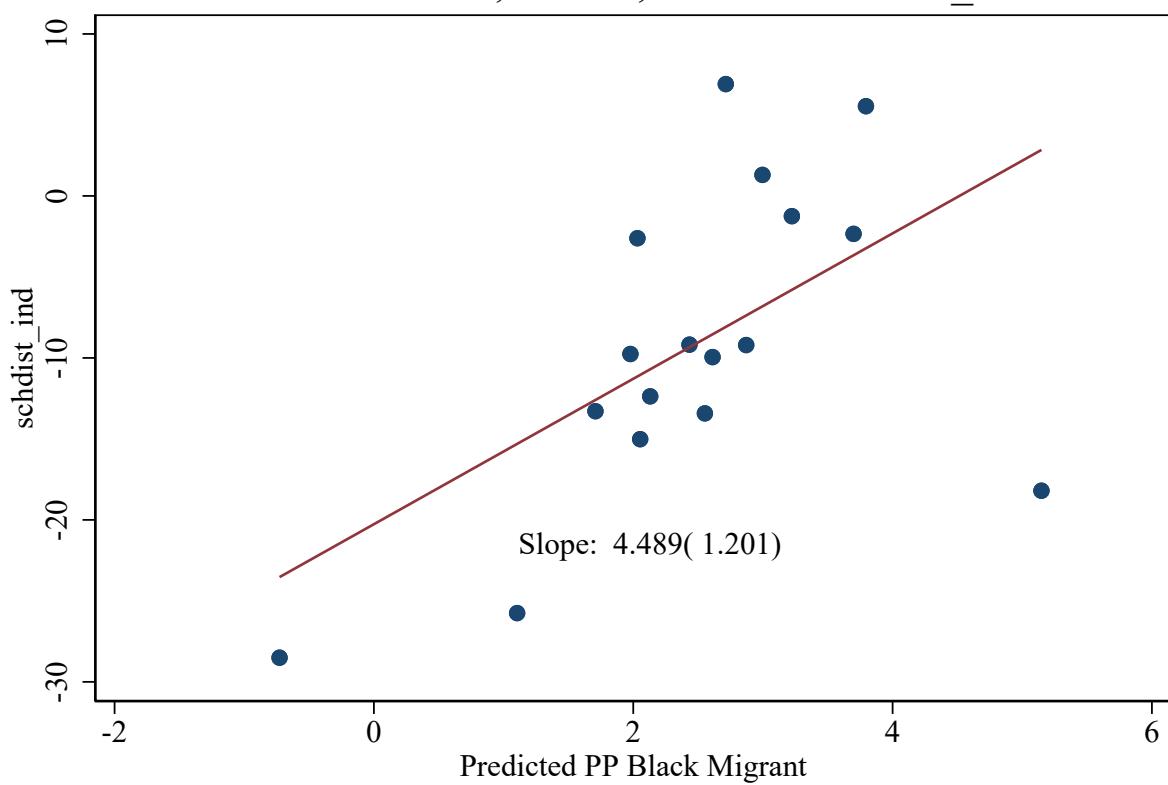
First Stage, Pooled



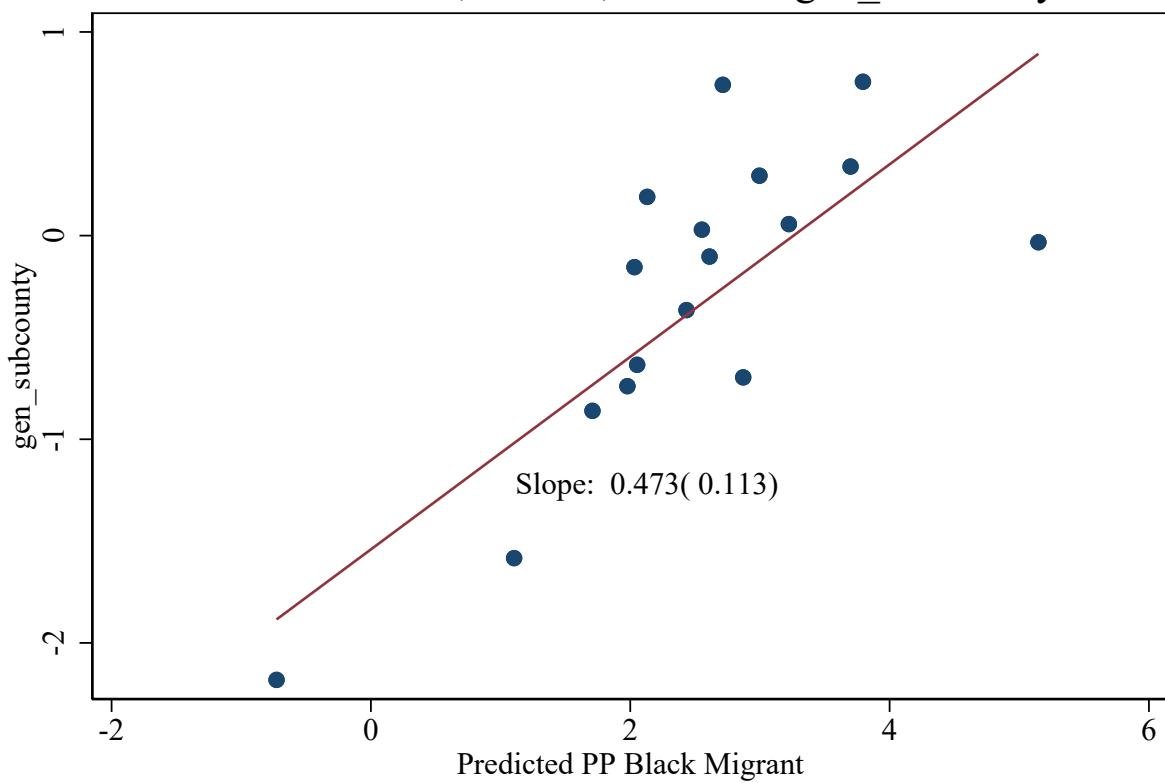
Reduced Form, Pooled, outcome: cgoodman



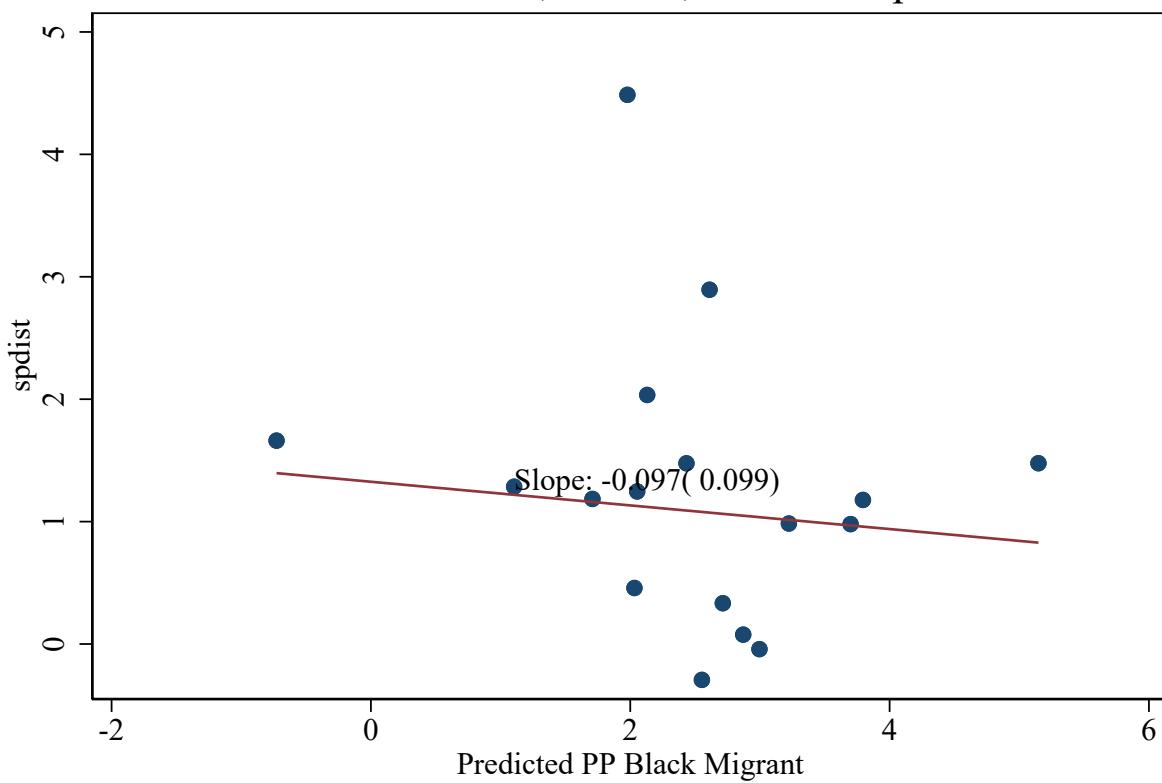
Reduced Form, Pooled, outcome: schdist\_ind



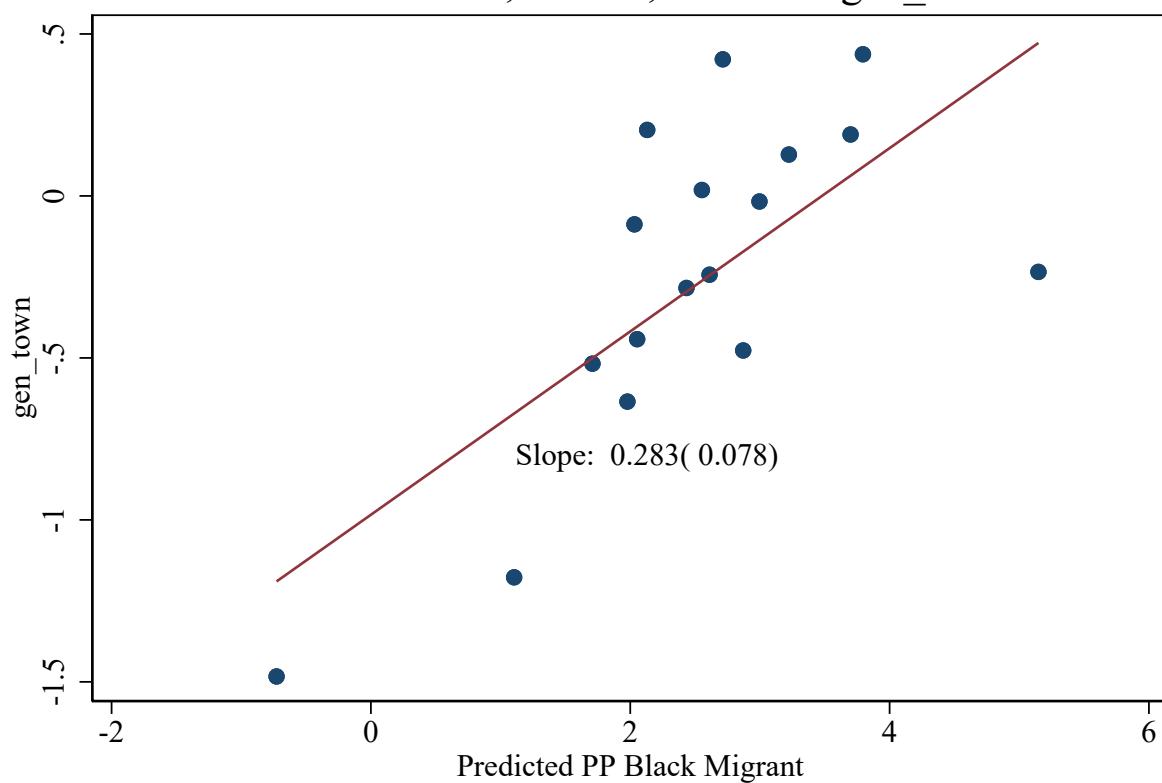
Reduced Form, Pooled, outcome: gen\_subcounty



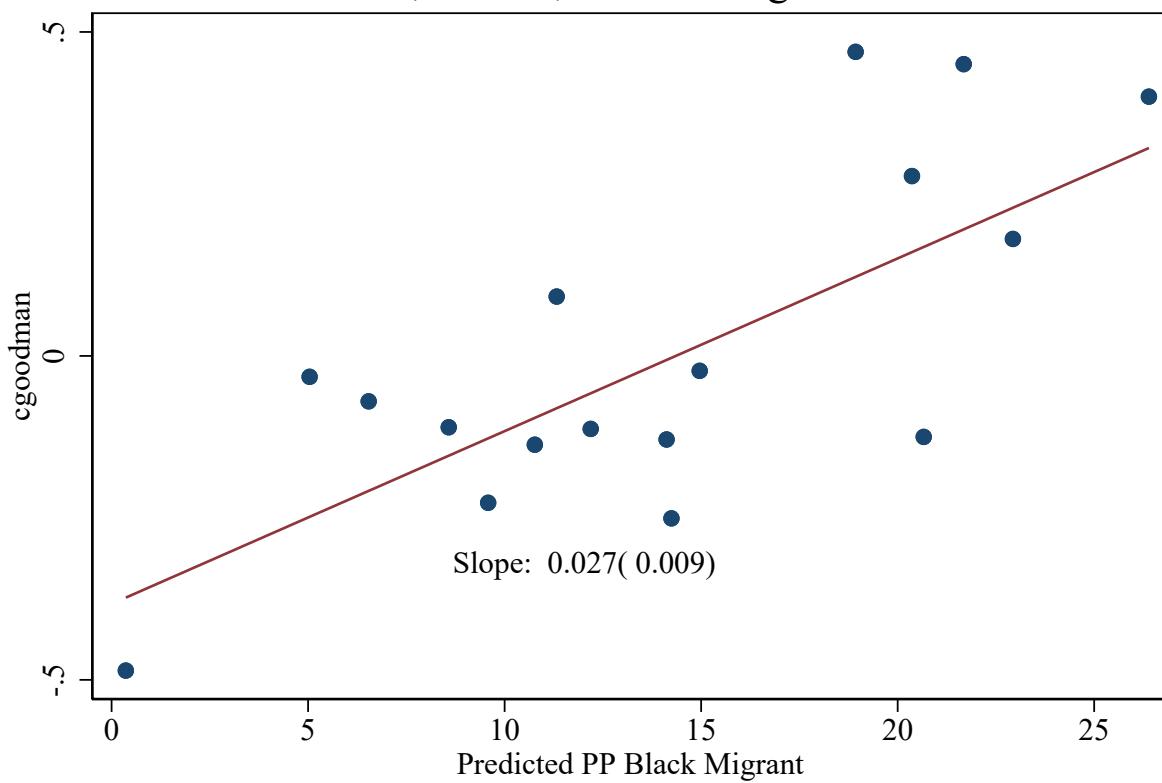
Reduced Form, Pooled, outcome: spdist



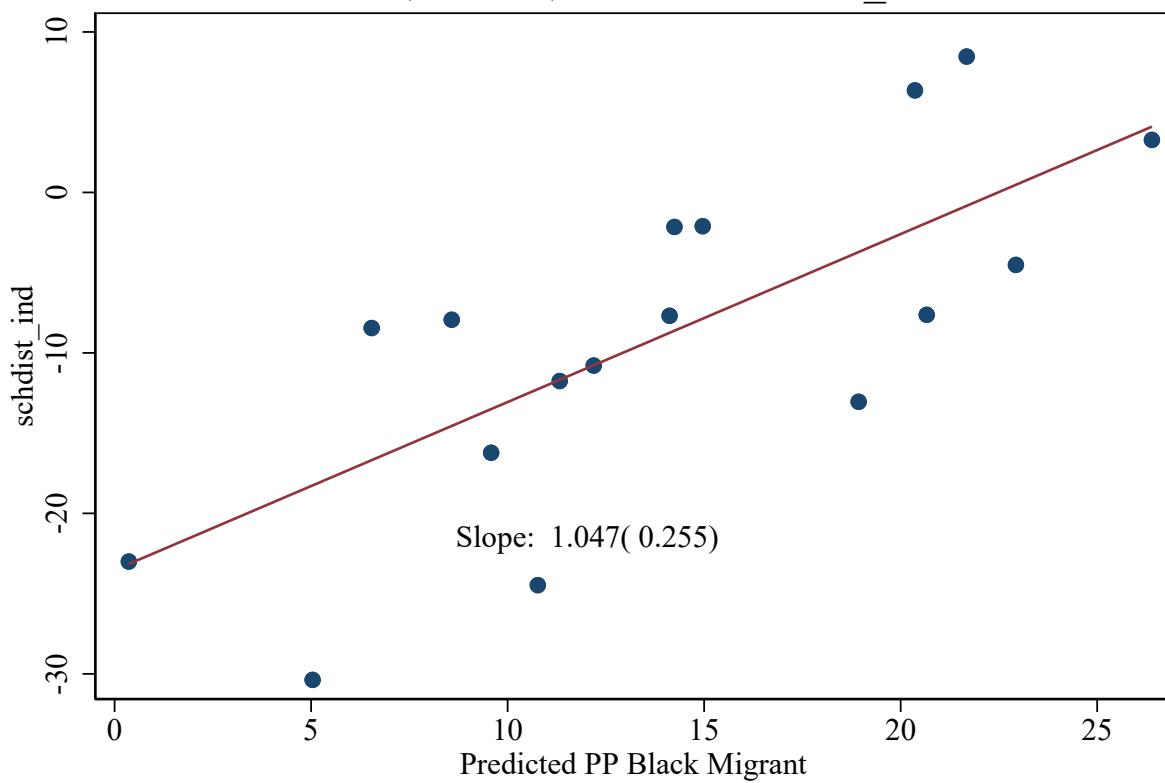
Reduced Form, Pooled, outcome: gen\_town



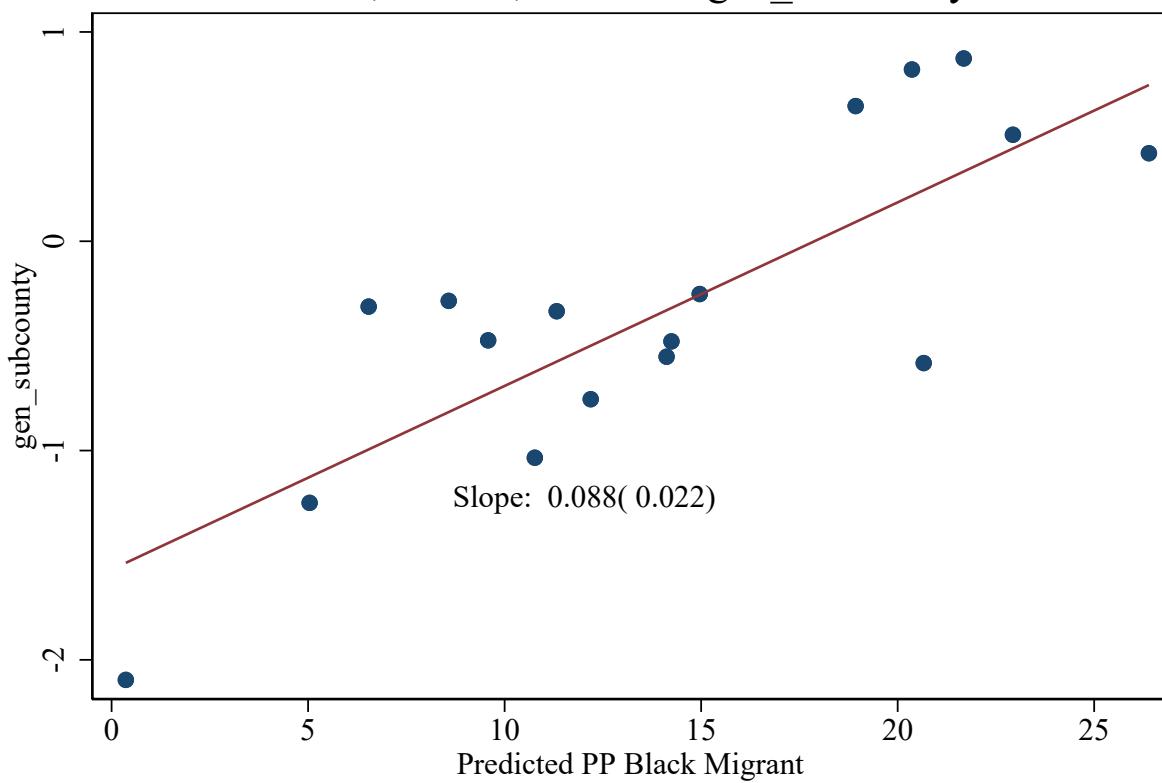
OLS, Pooled, outcome: cgoodman



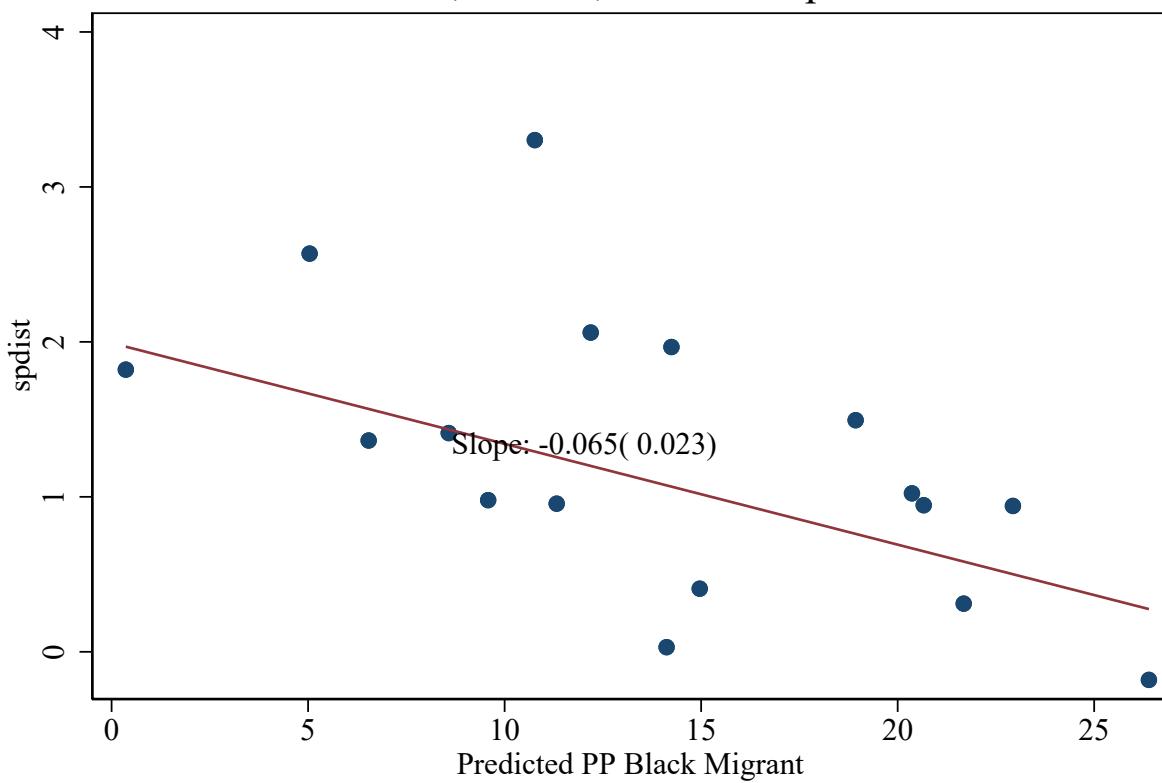
OLS, Pooled, outcome: schdist\_ind



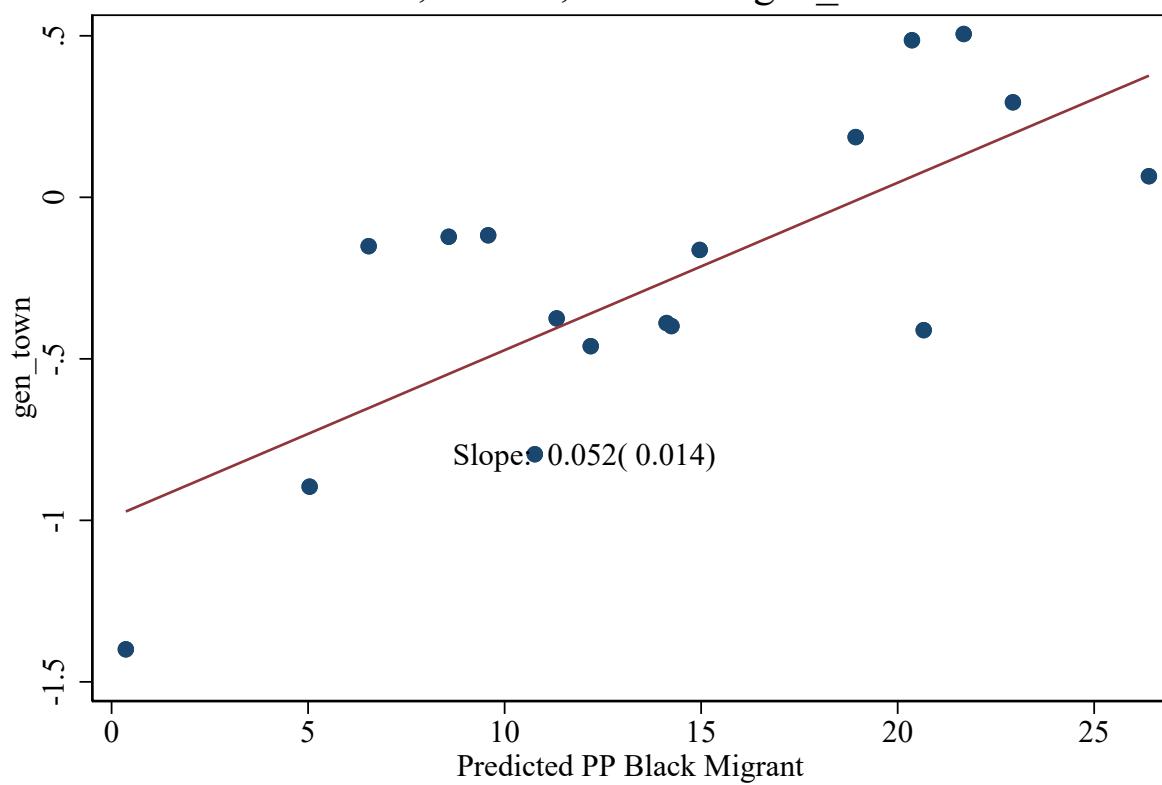
OLS, Pooled, outcome: gen\_subcounty



OLS, Pooled, outcome: spdist

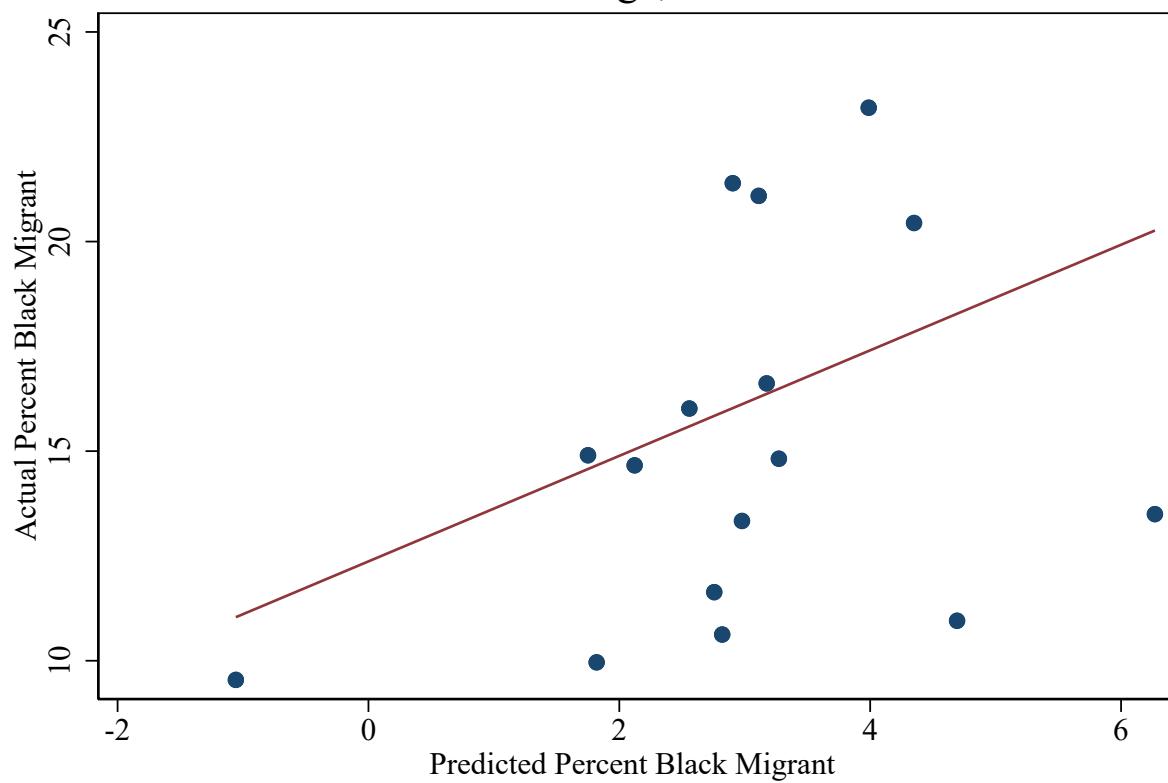


OLS, Pooled, outcome: gen\_town

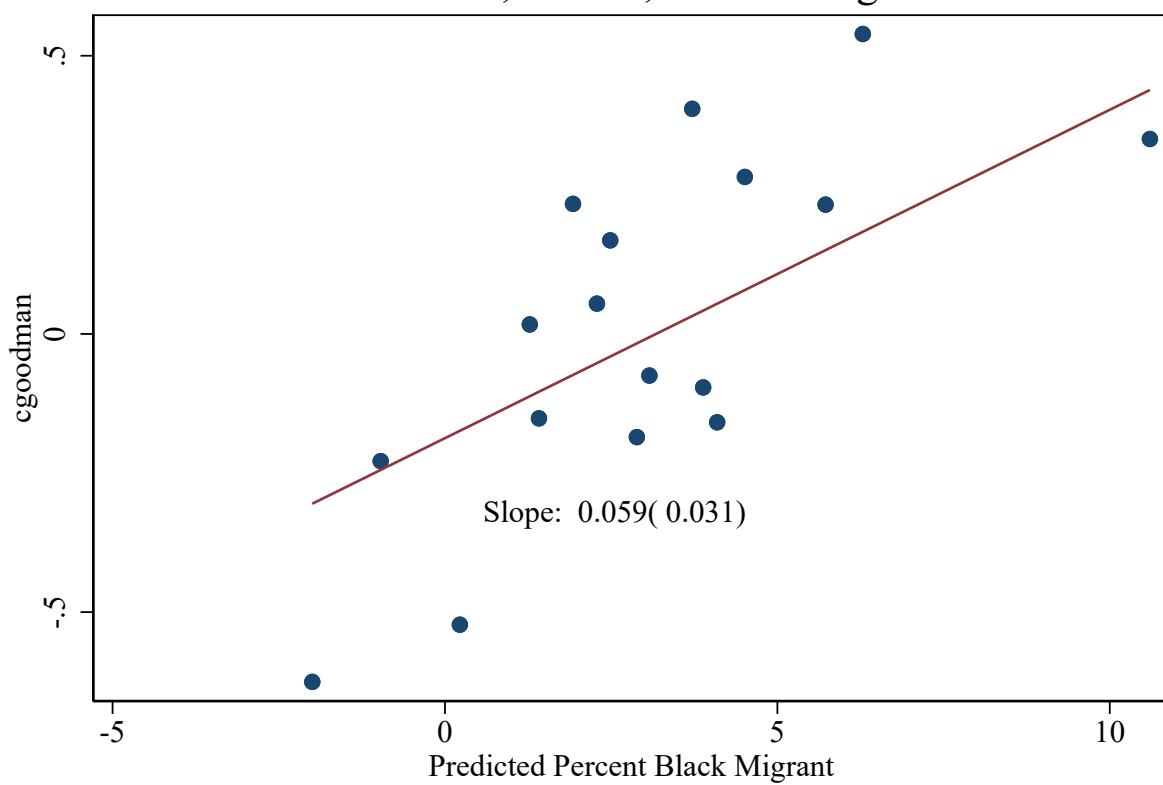


## 1.14 Percent Binscatters

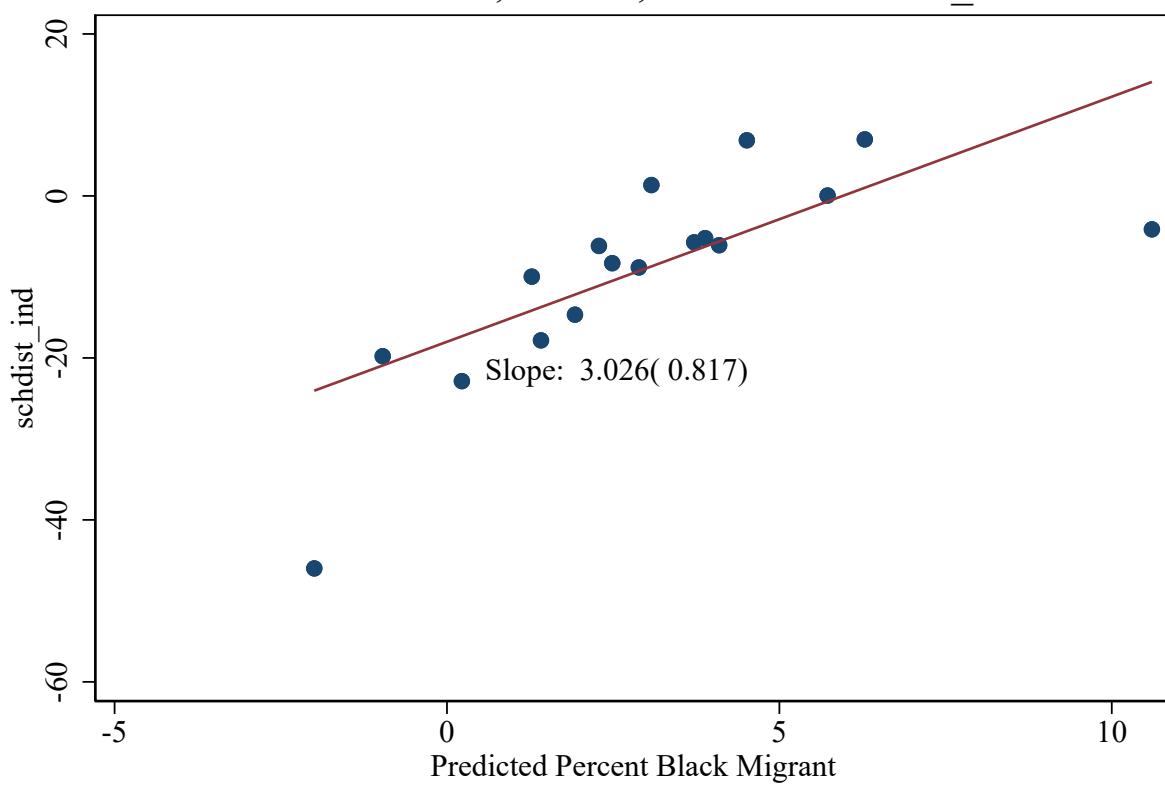
First Stage, Pooled



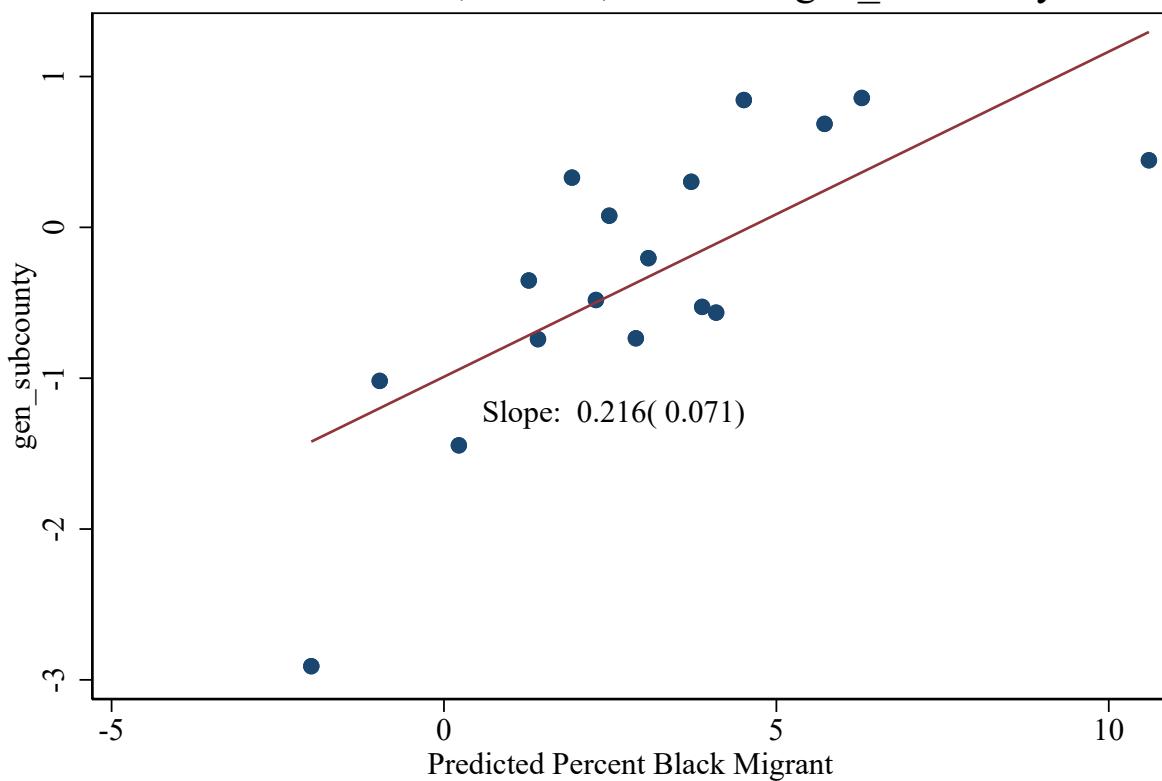
Reduced Form, Pooled, outcome: cgoodman



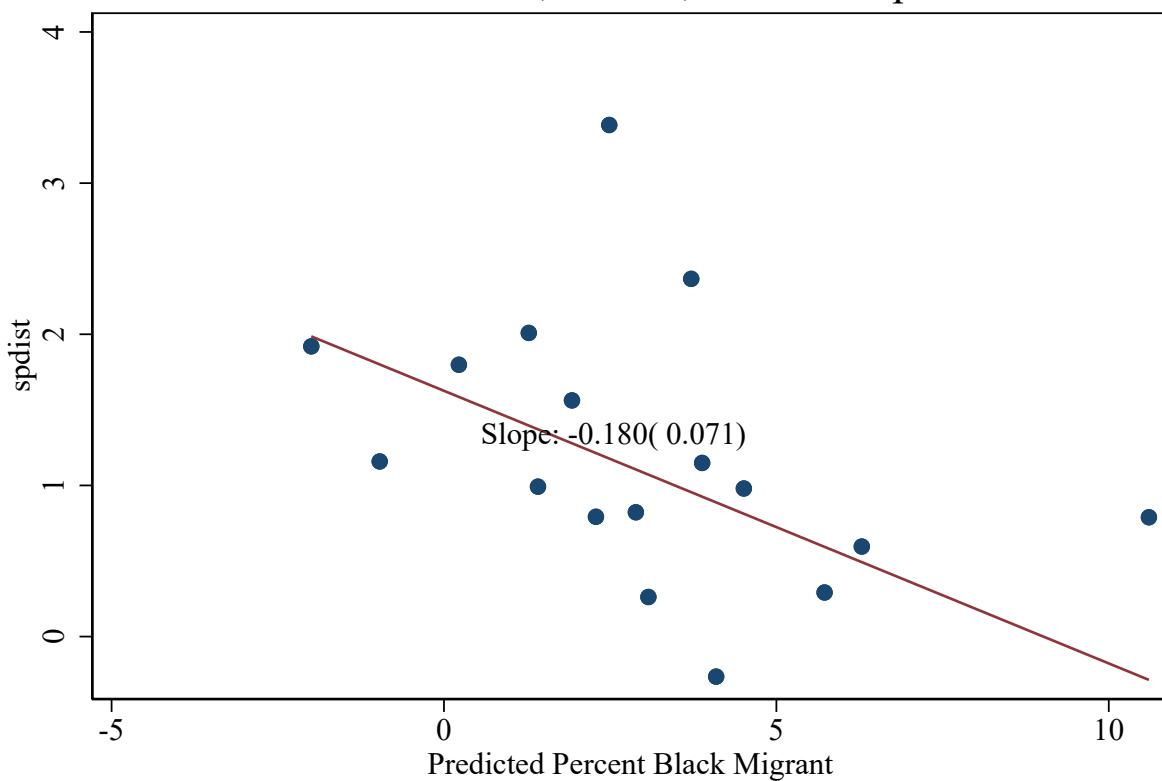
Reduced Form, Pooled, outcome: schdist\_ind



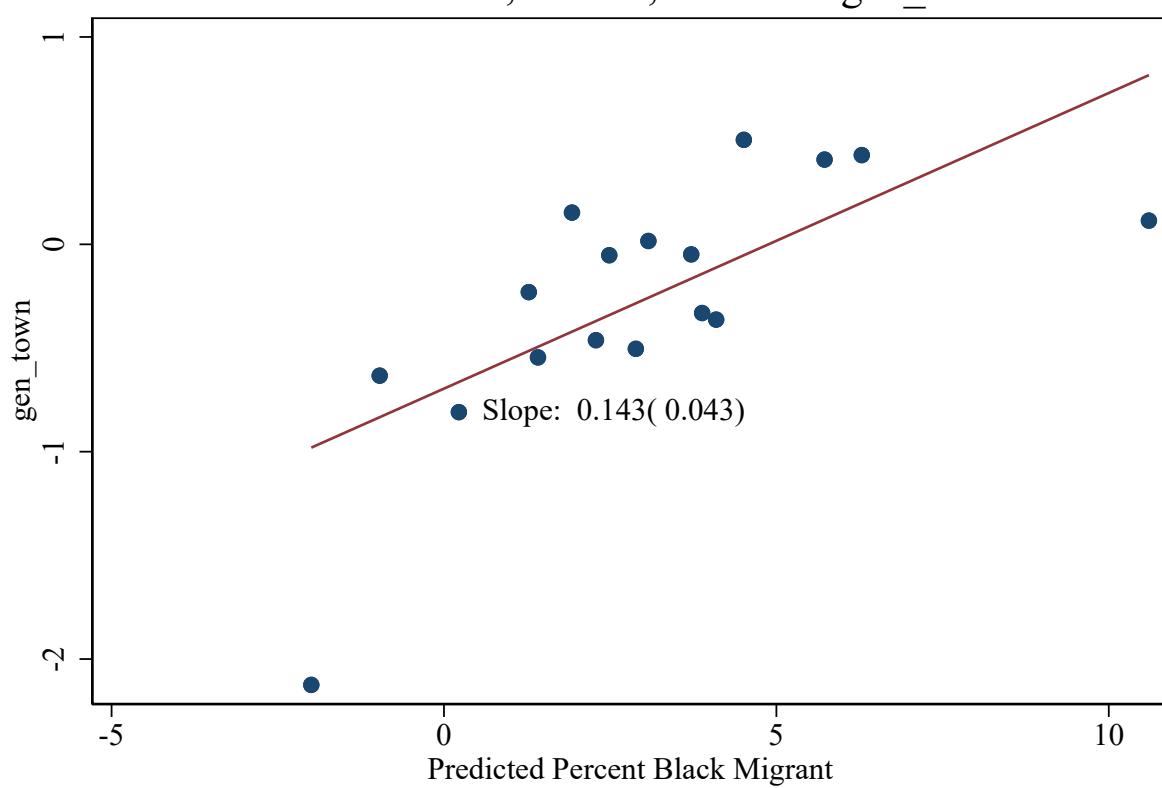
Reduced Form, Pooled, outcome: gen\_subcounty



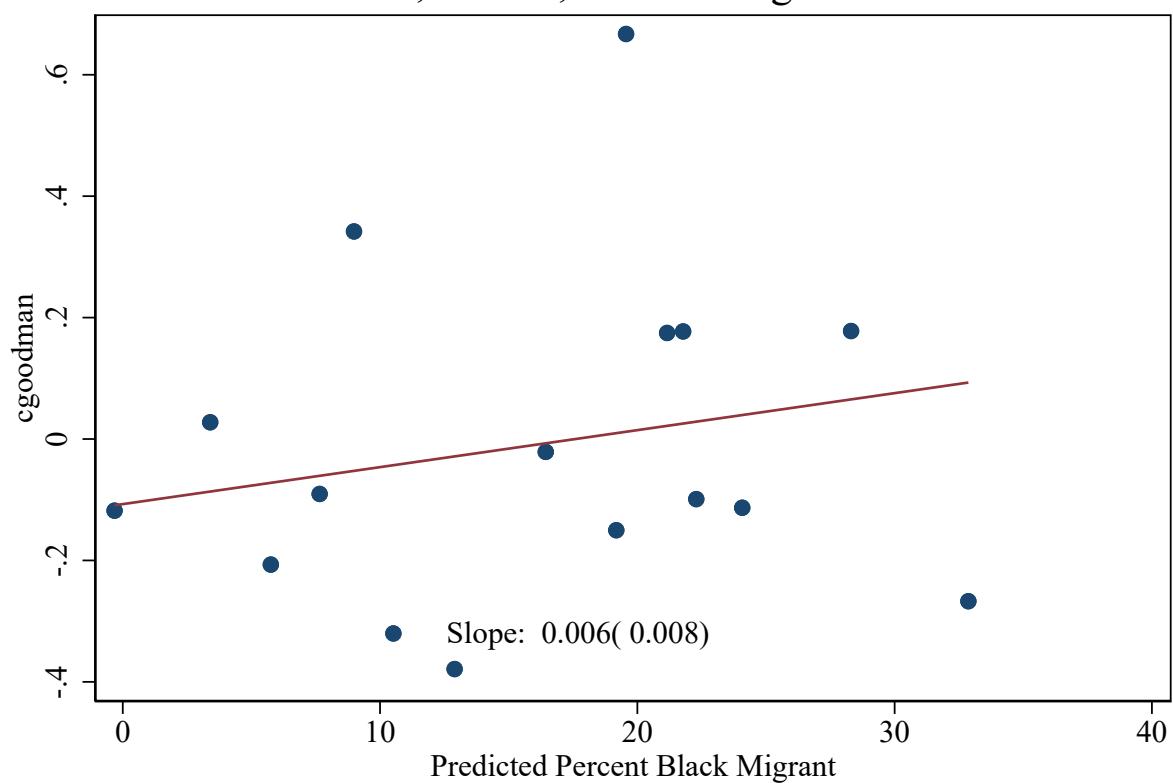
Reduced Form, Pooled, outcome: spdist



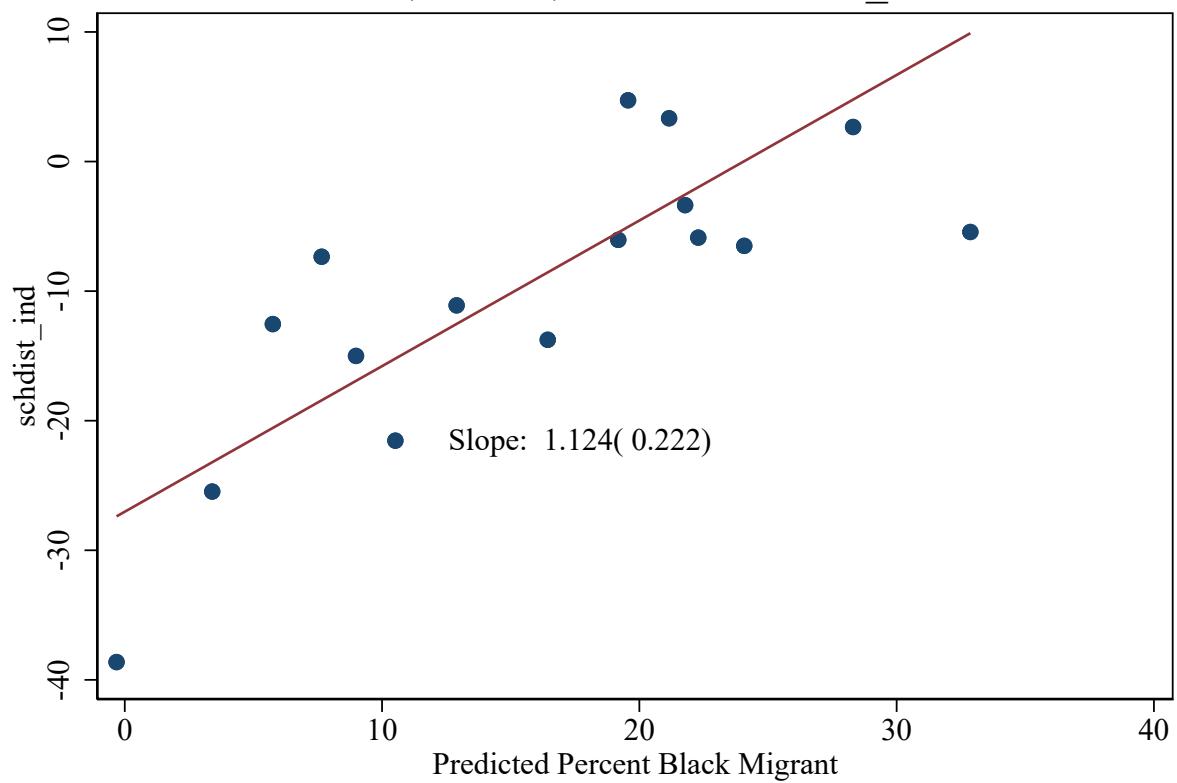
Reduced Form, Pooled, outcome: gen\_town



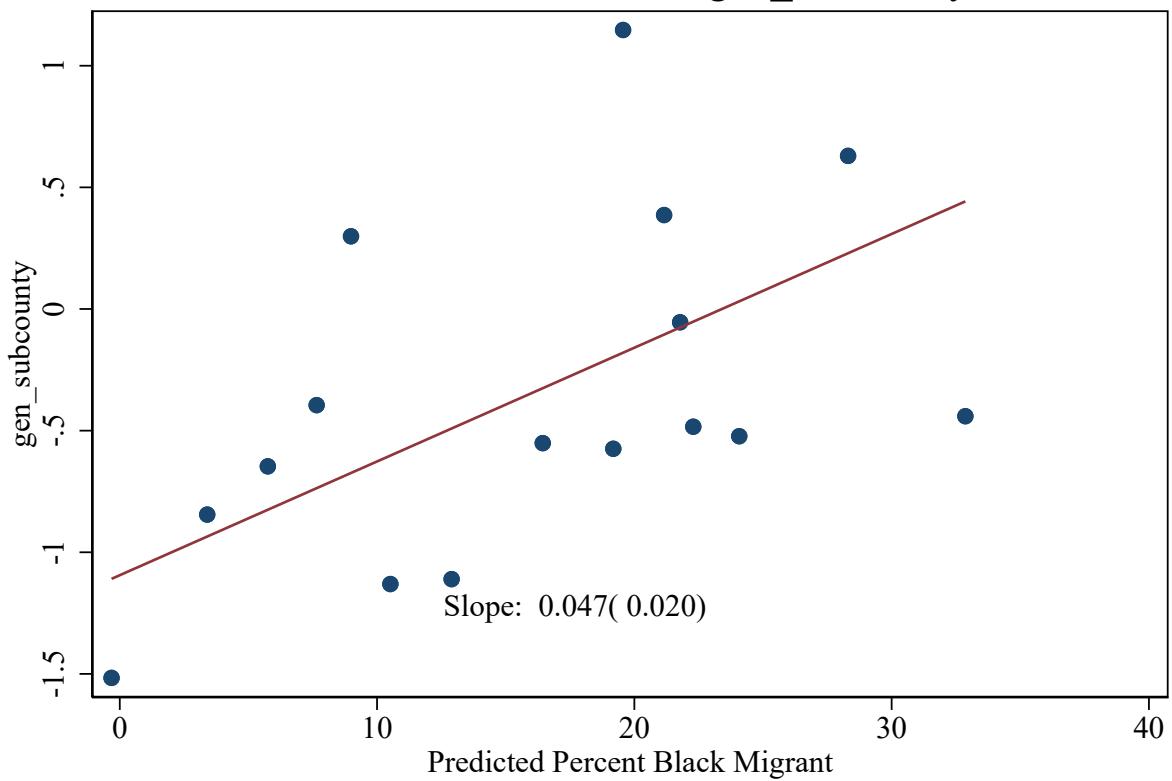
OLS, Pooled, outcome: cgoodman



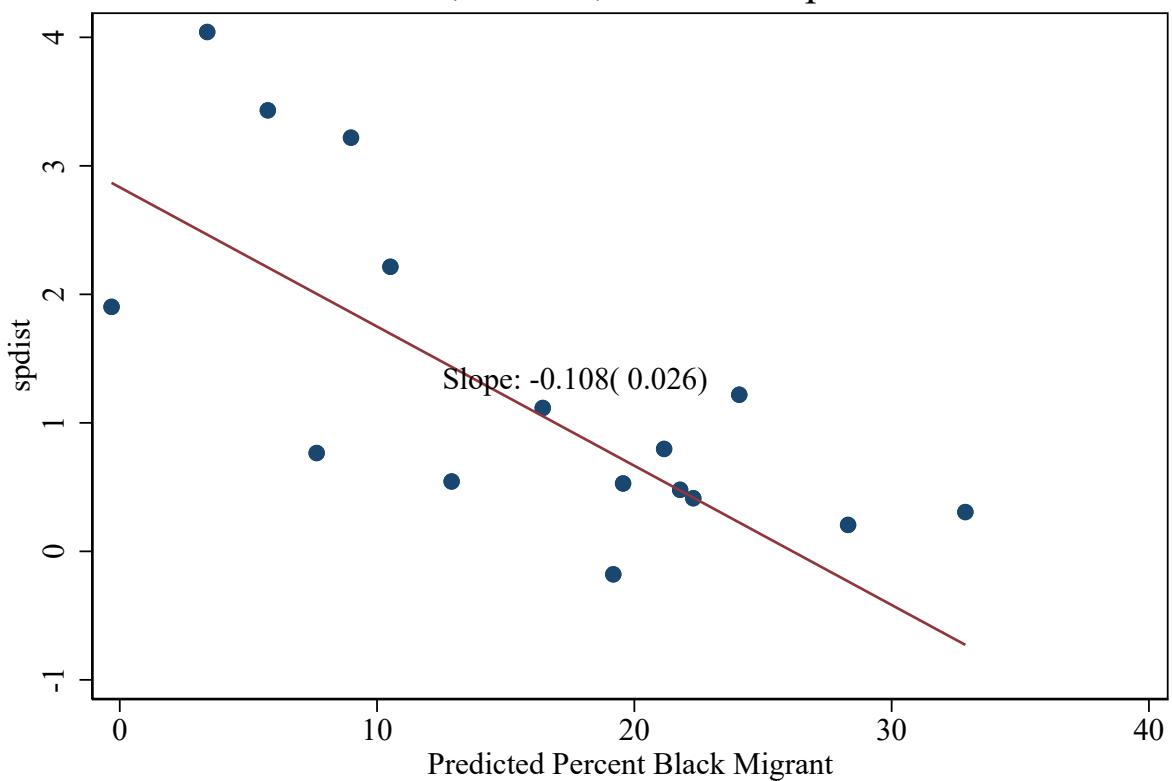
OLS, Pooled, outcome: schdist\_ind



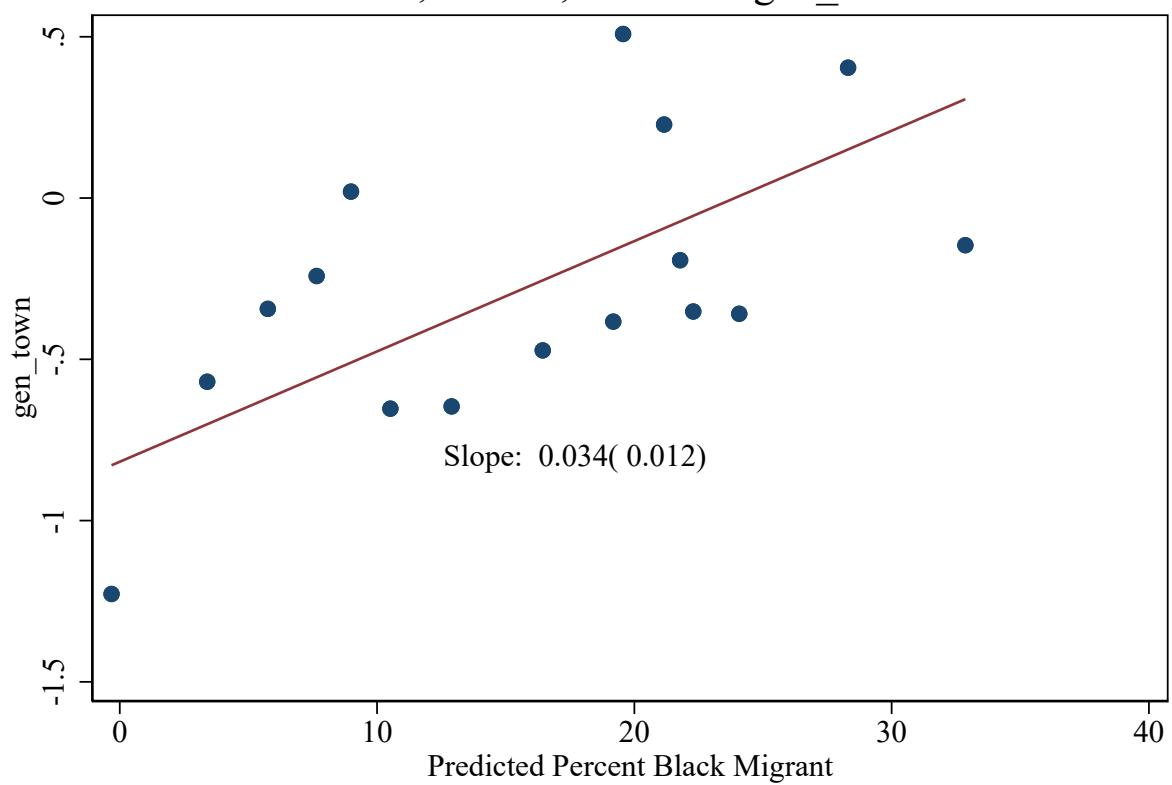
OLS, Pooled, outcome: gen\_subcounty



OLS, Pooled, outcome: spdist

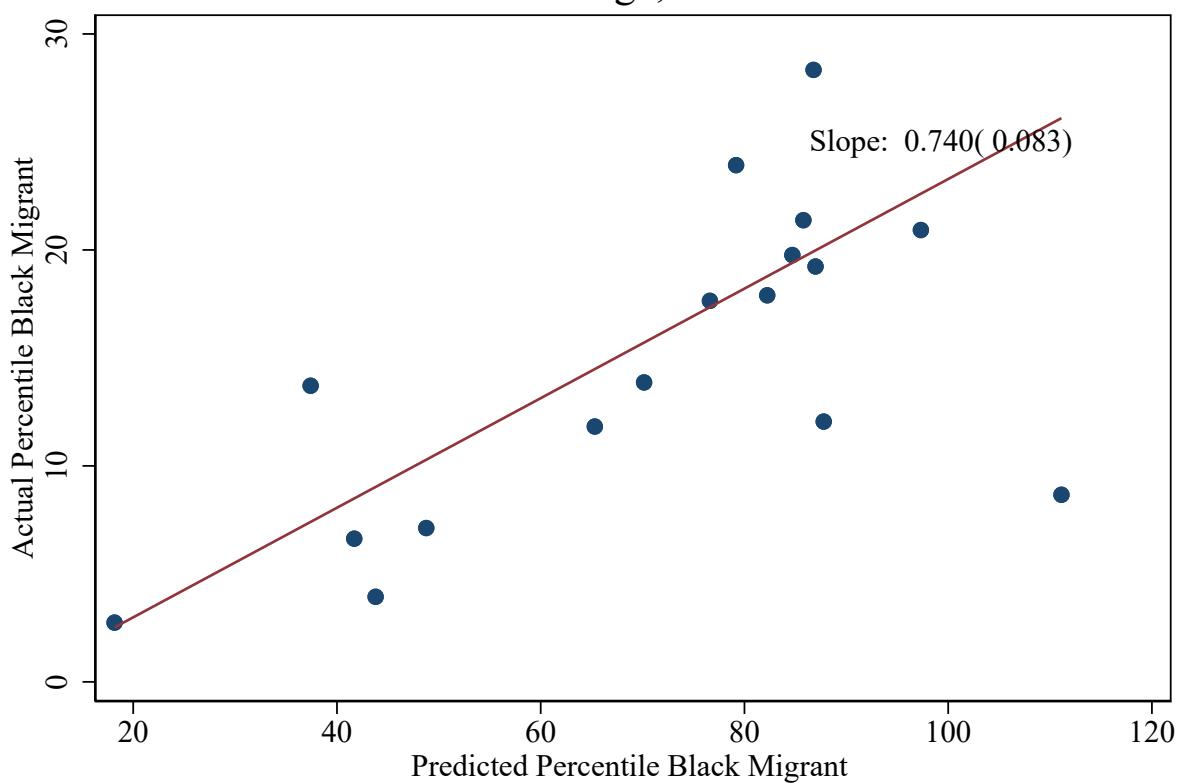


OLS, Pooled, outcome: gen\_town

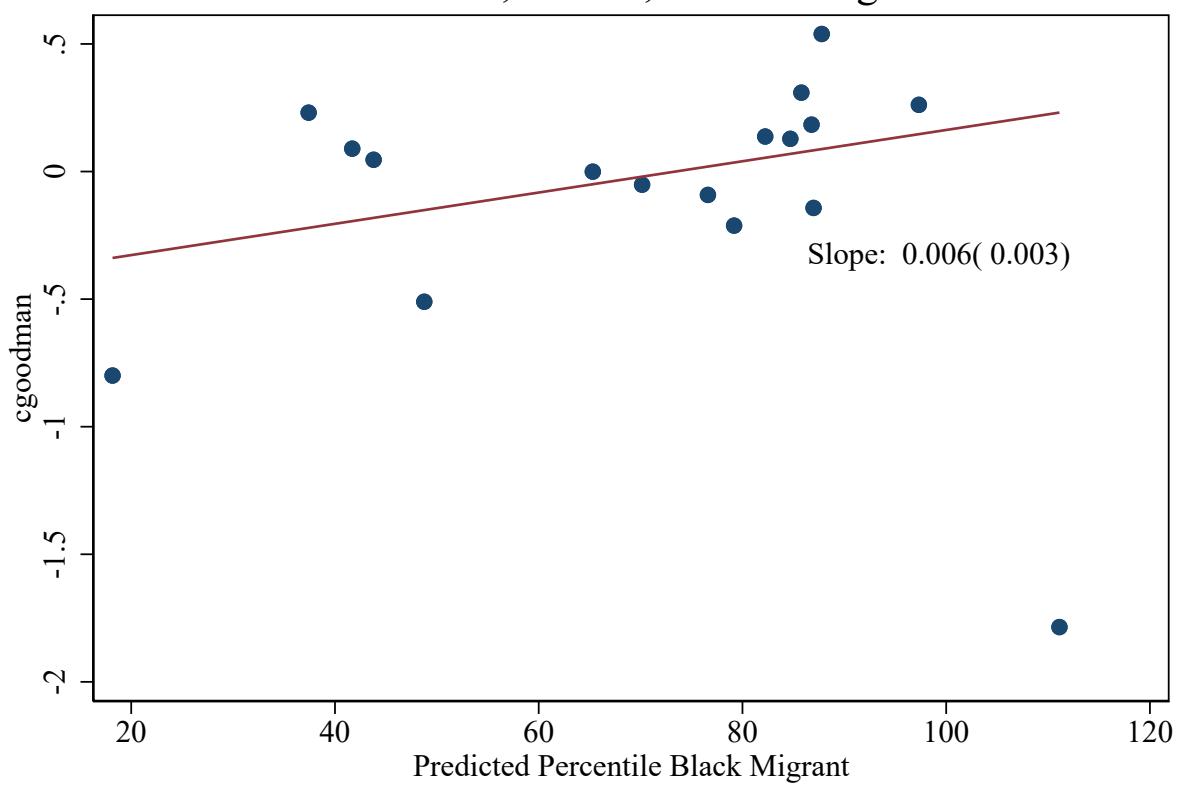


## 1.15 Percentile Binscatters

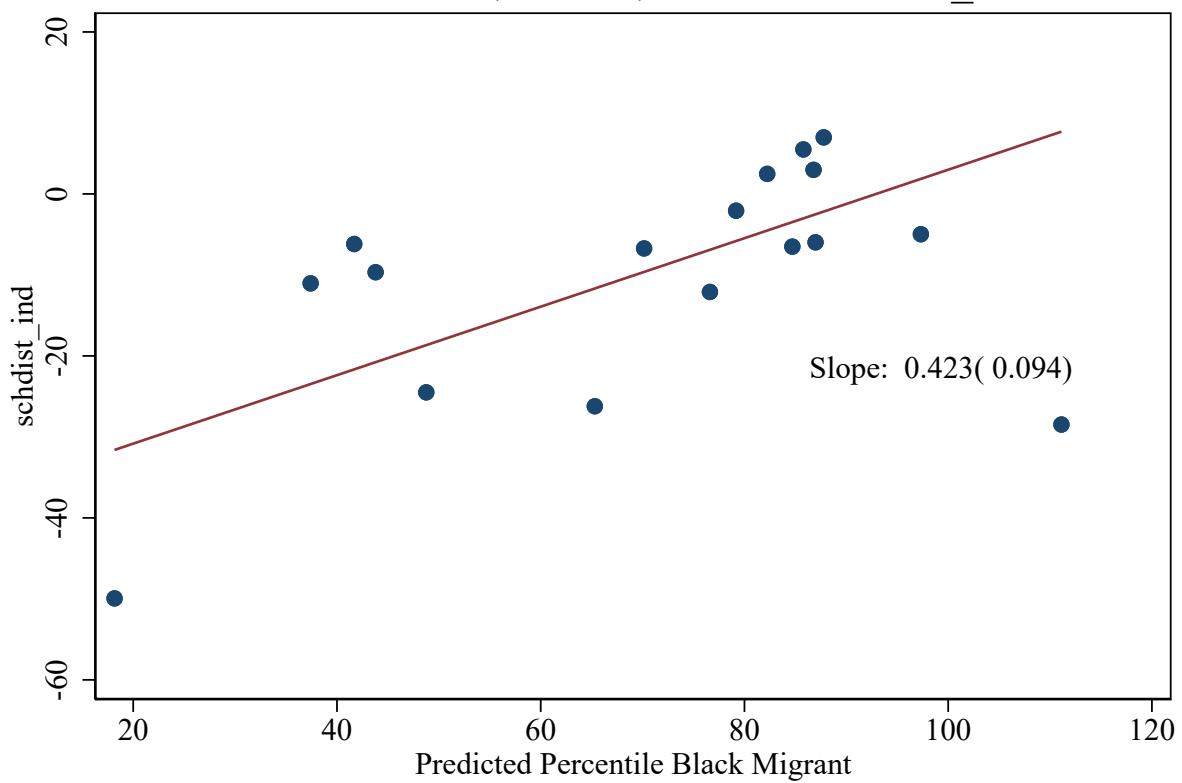
### First Stage, Pooled



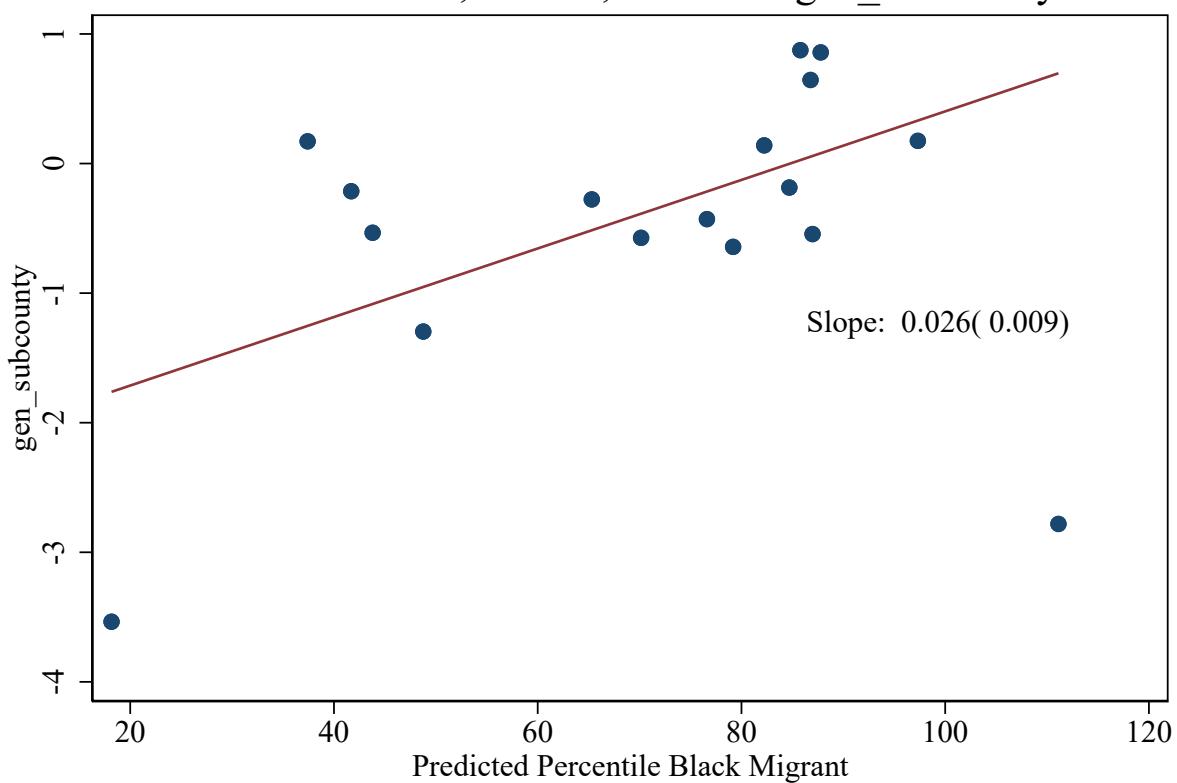
Reduced Form, Pooled, outcome: cgoodman



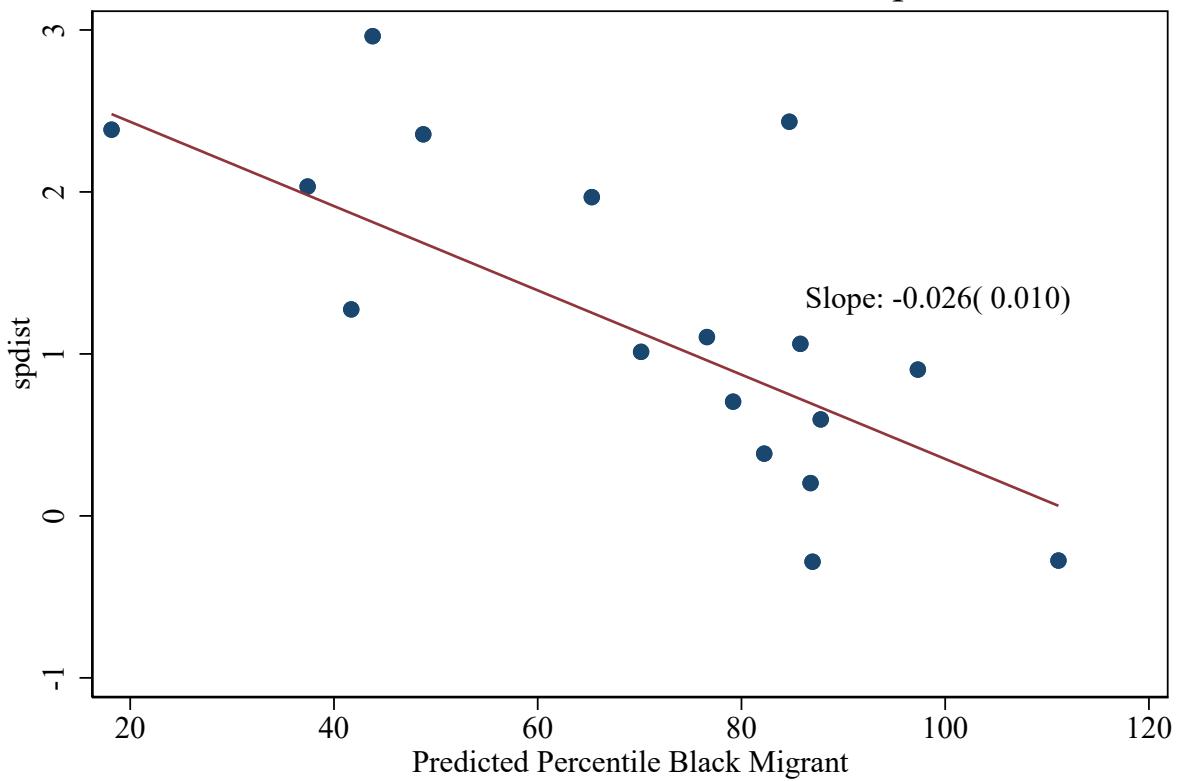
Reduced Form, Pooled, outcome: schdist\_ind



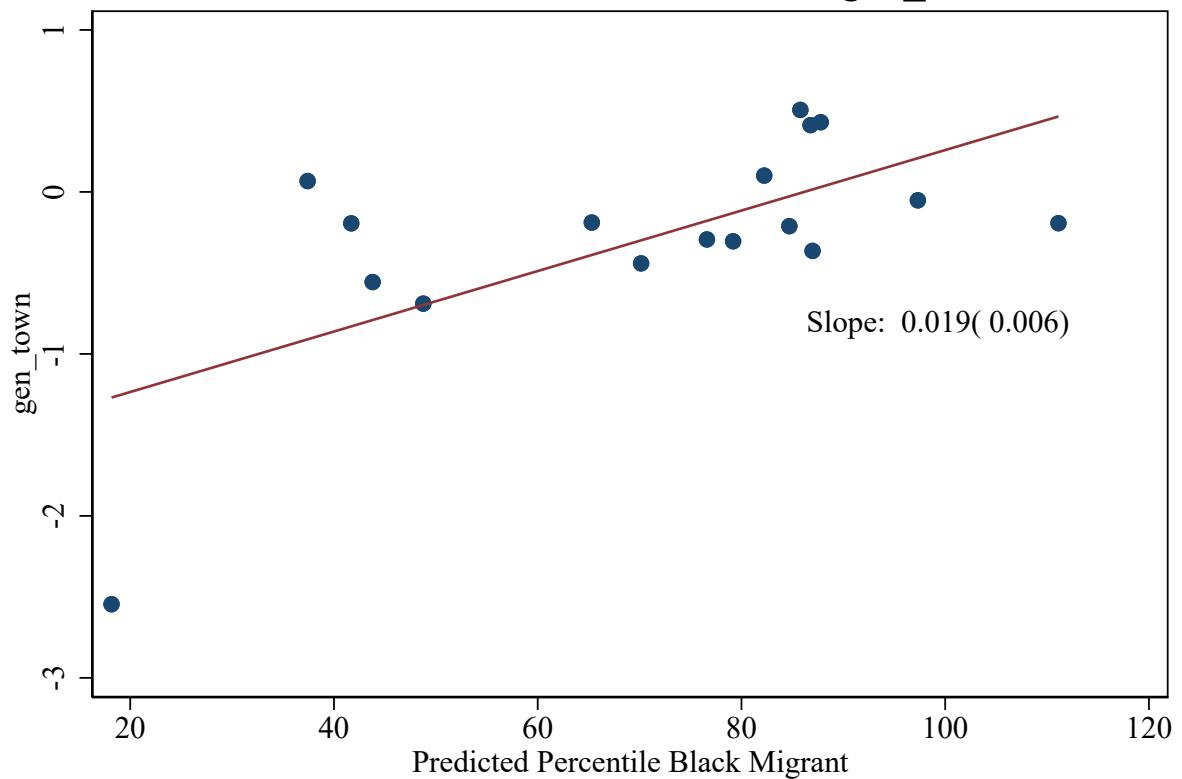
Reduced Form, Pooled, outcome: gen\_subcounty



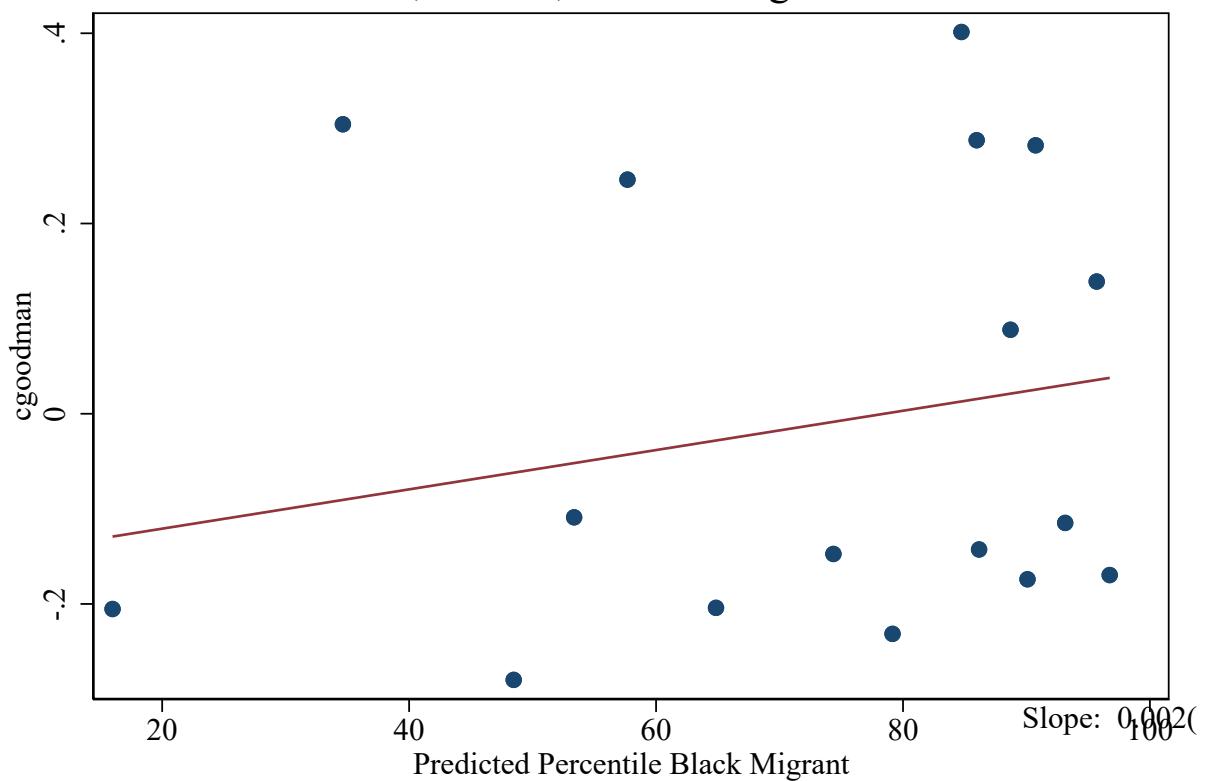
Reduced Form, Pooled, outcome: spdist



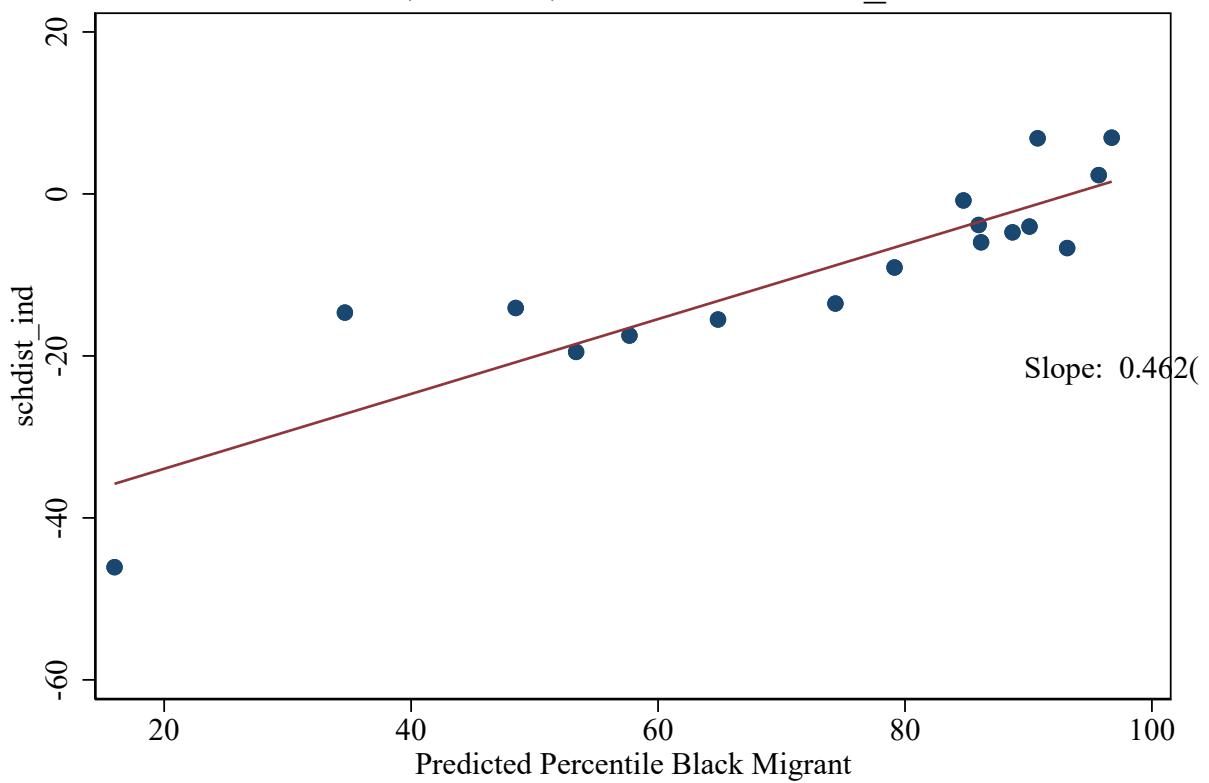
Reduced Form, Pooled, outcome: gen\_town



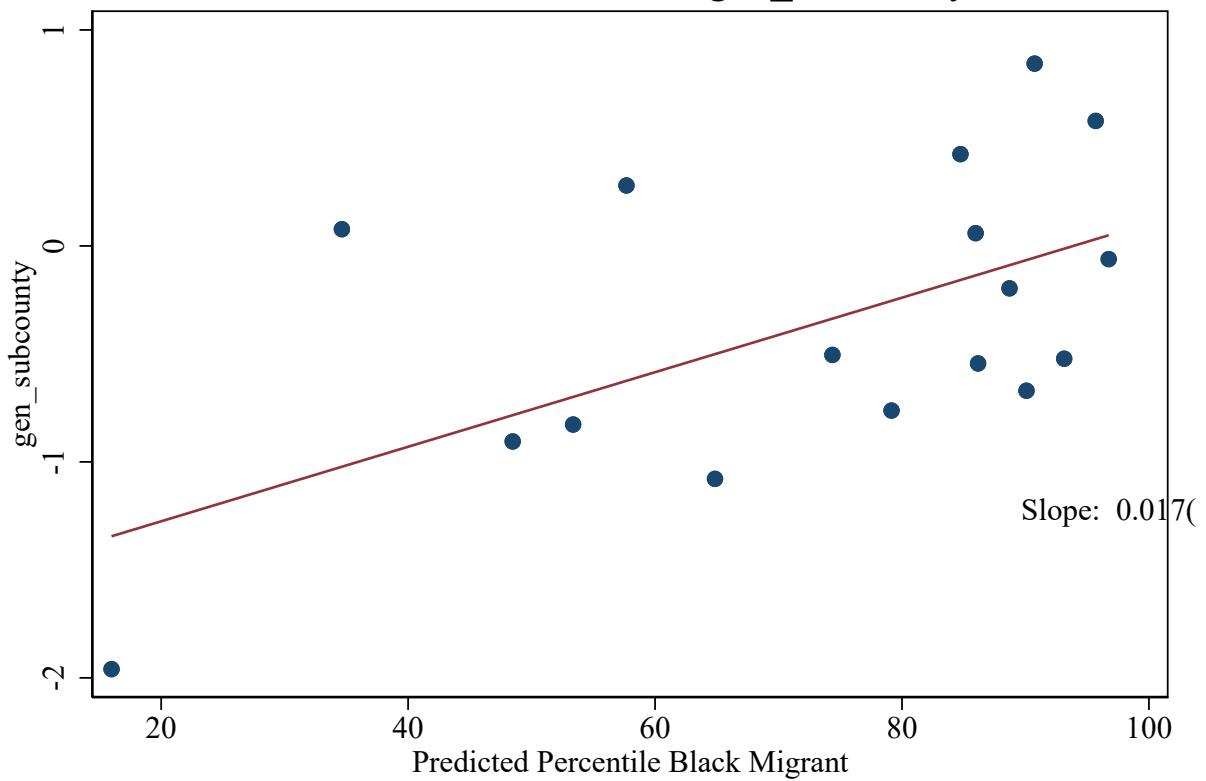
OLS, Pooled, outcome: cgoodman



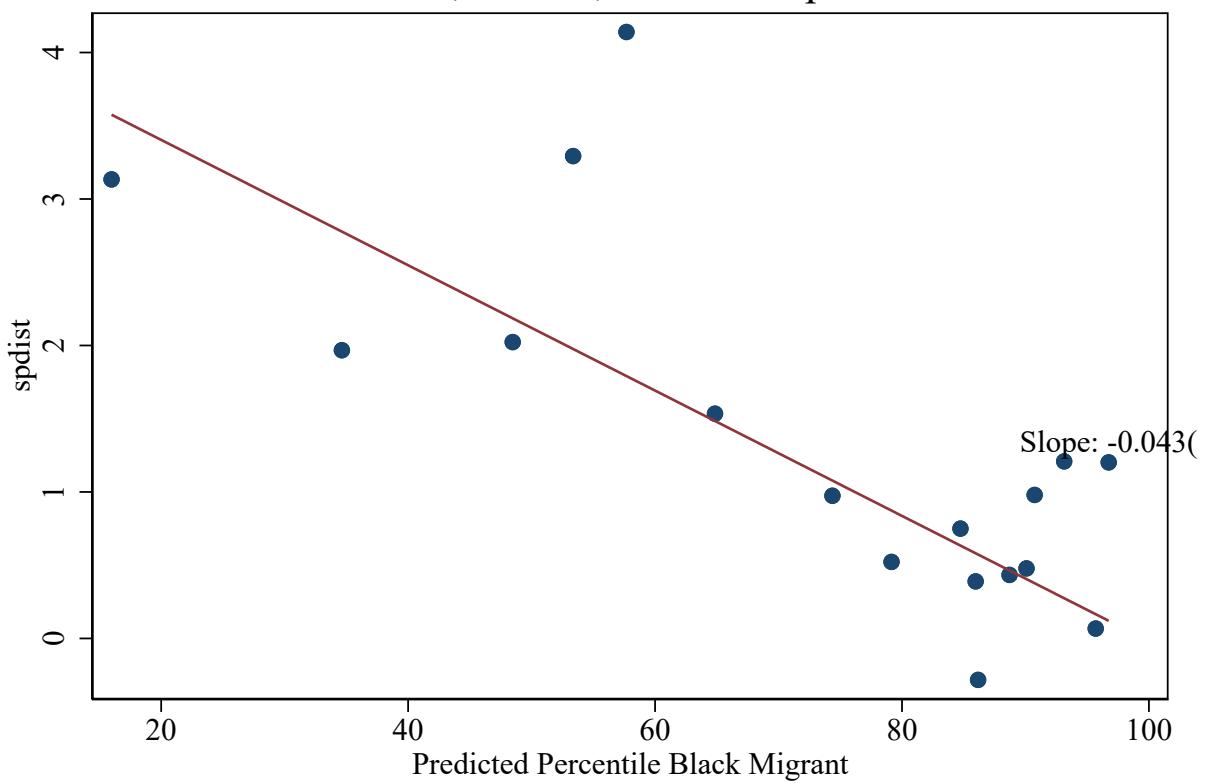
OLS, Pooled, outcome: schdist\_ind



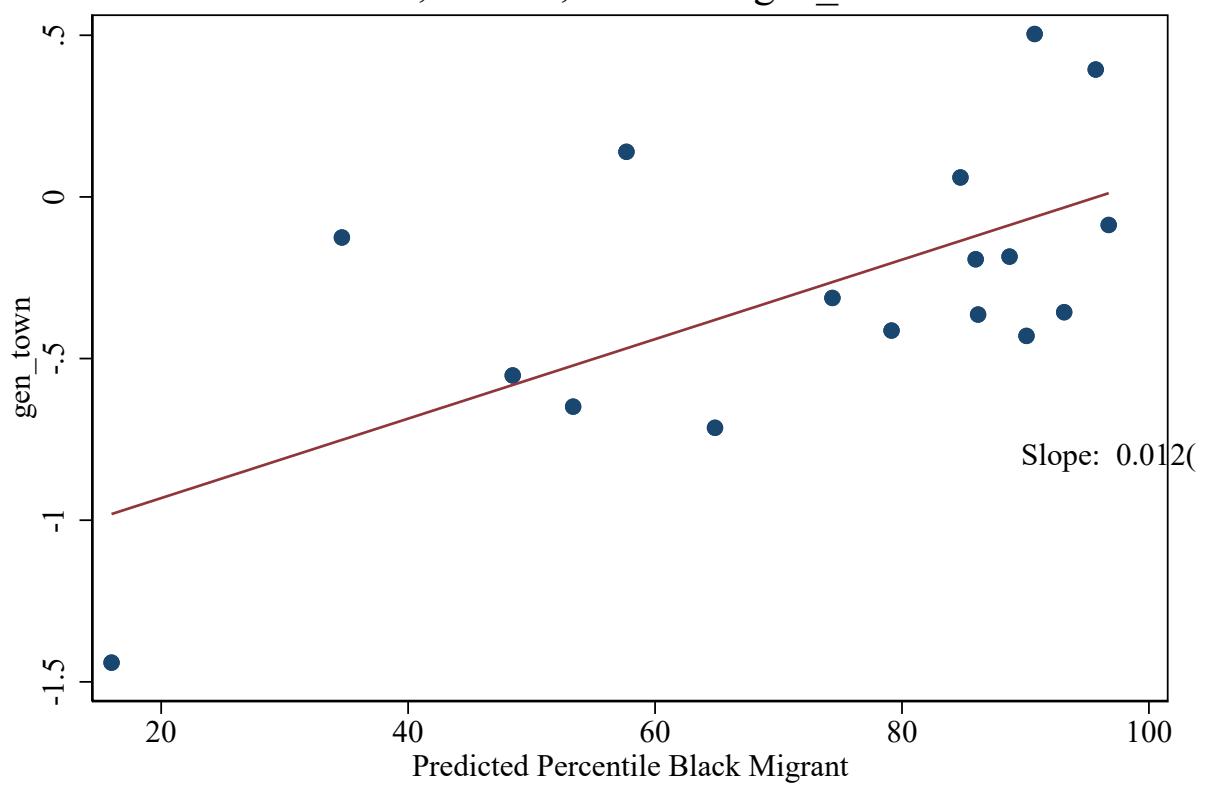
OLS, Pooled, outcome: gen\_subcounty



OLS, Pooled, outcome: spdist

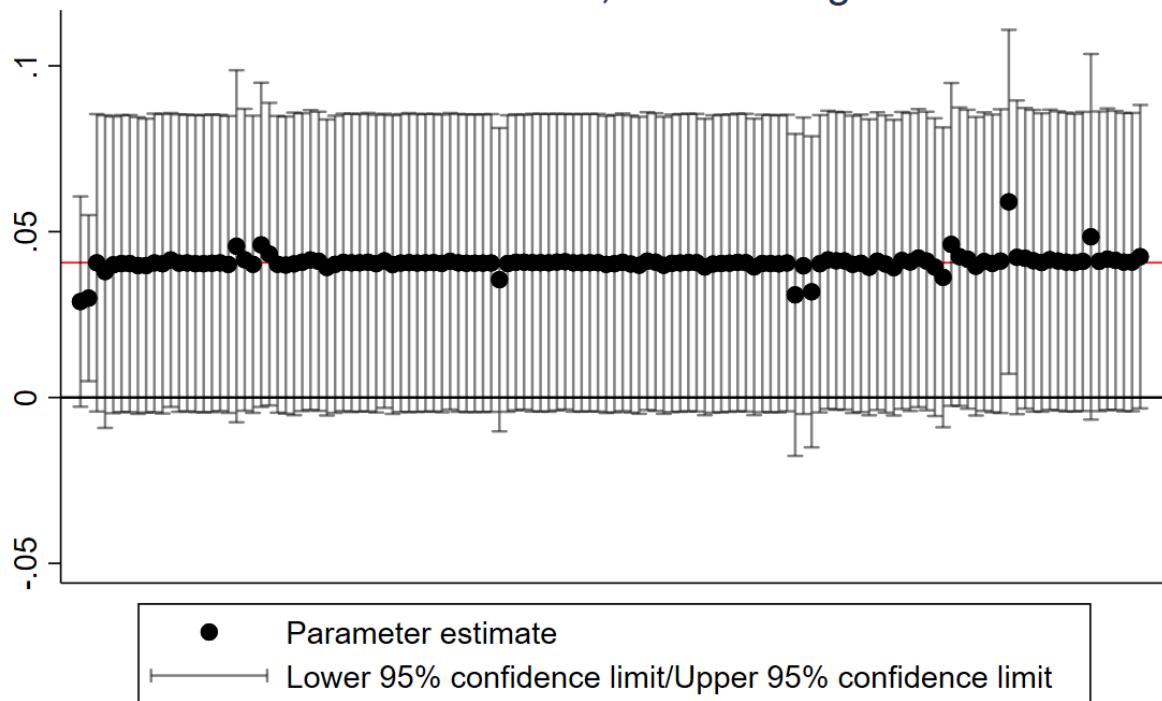


OLS, Pooled, outcome: gen\_town

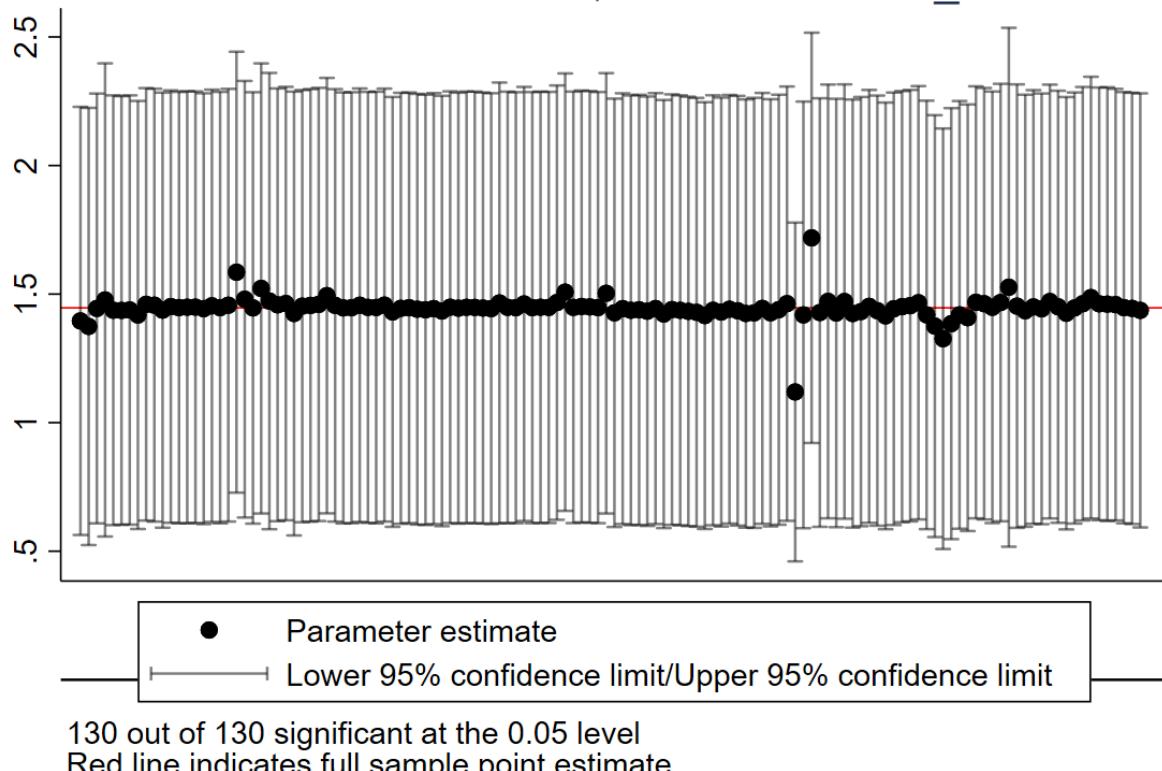


## 1.16 LOO Tests Reduced Form

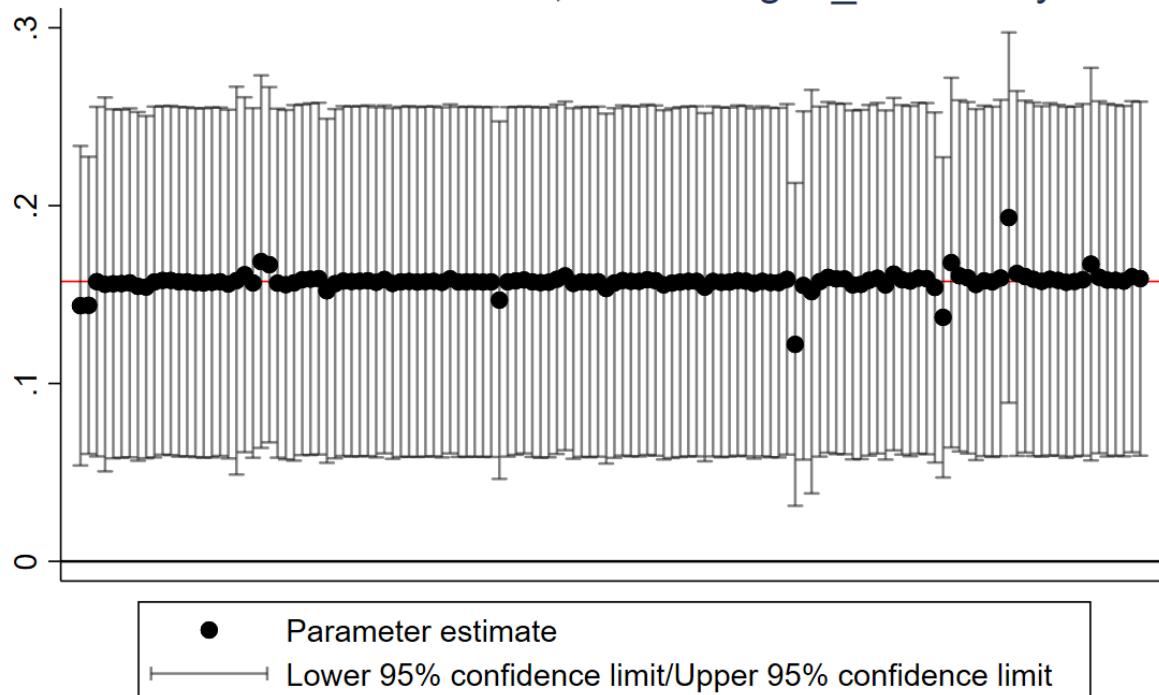
### Reduced form LOO, outcome cgoodman



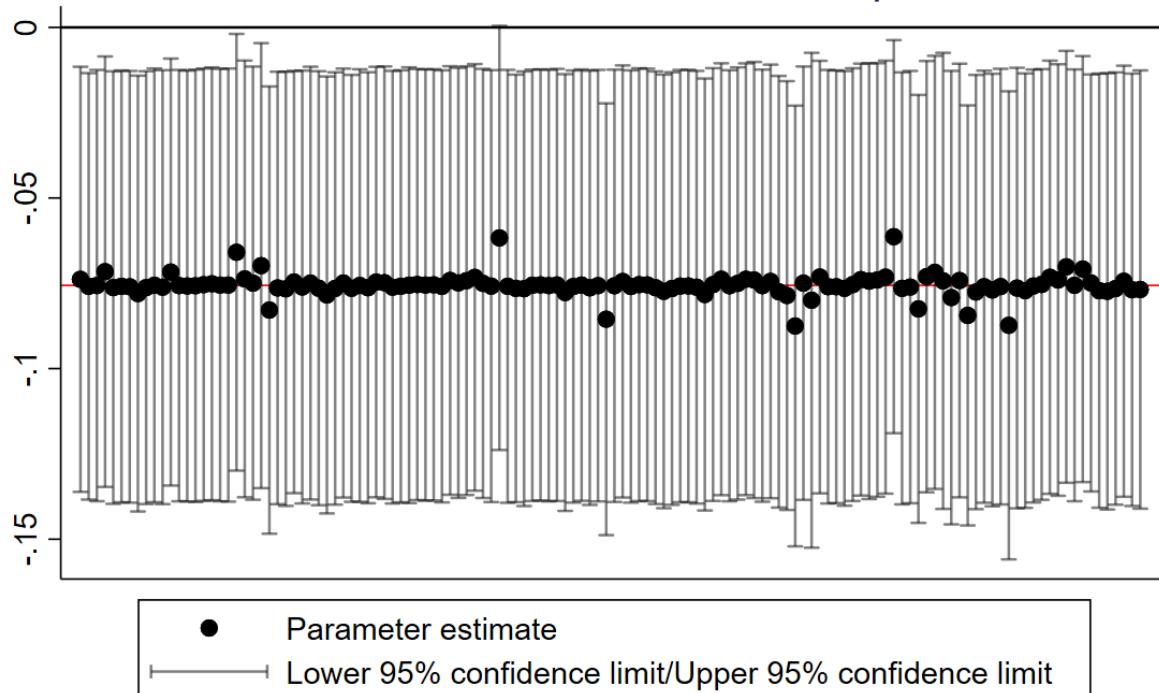
### Reduced form LOO, outcome schdist\_ind



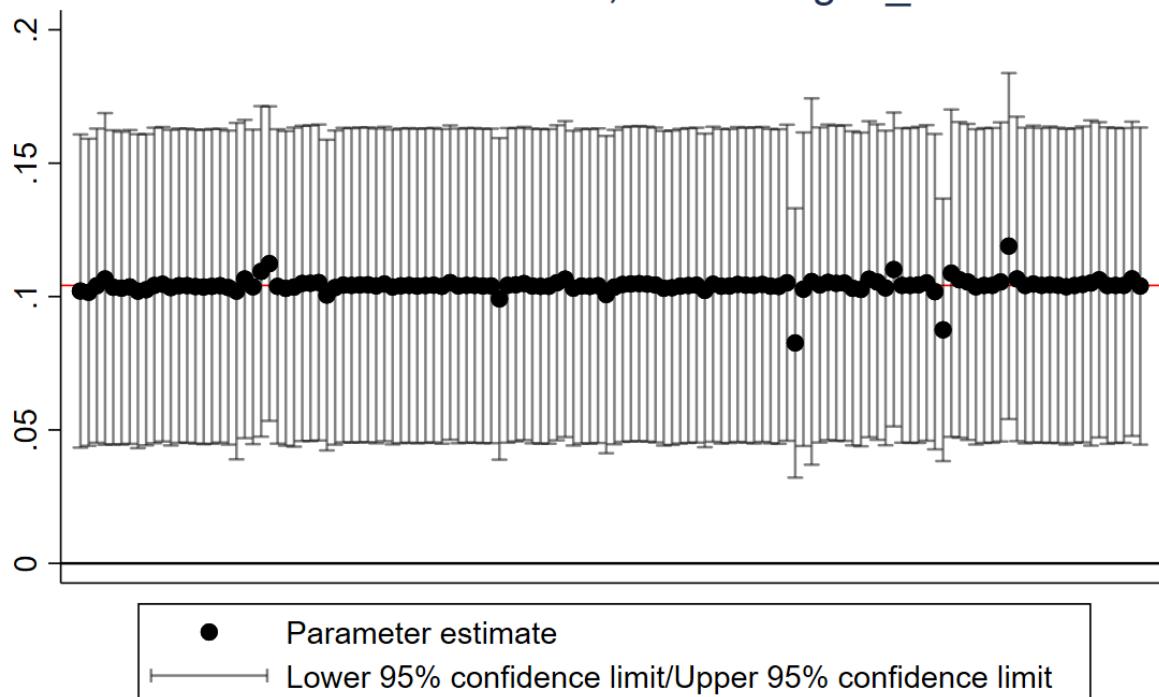
### Reduced form LOO, outcome gen\_subcounty



### Reduced form LOO, outcome spdist

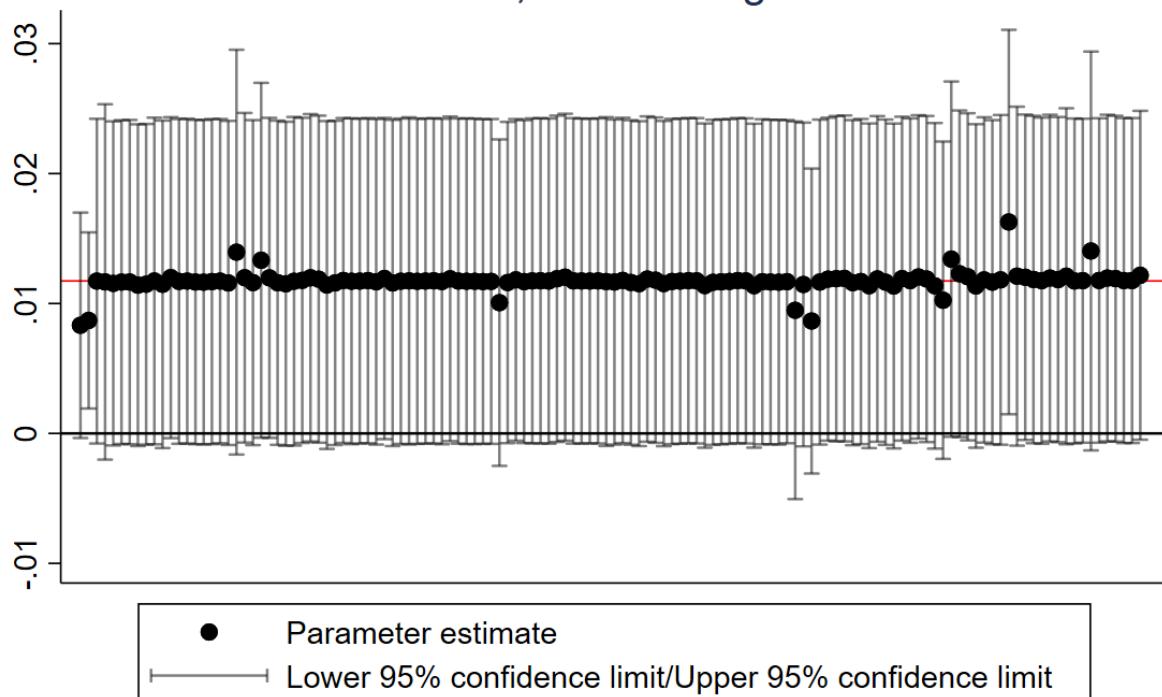


### Reduced form LOO, outcome gen\_town

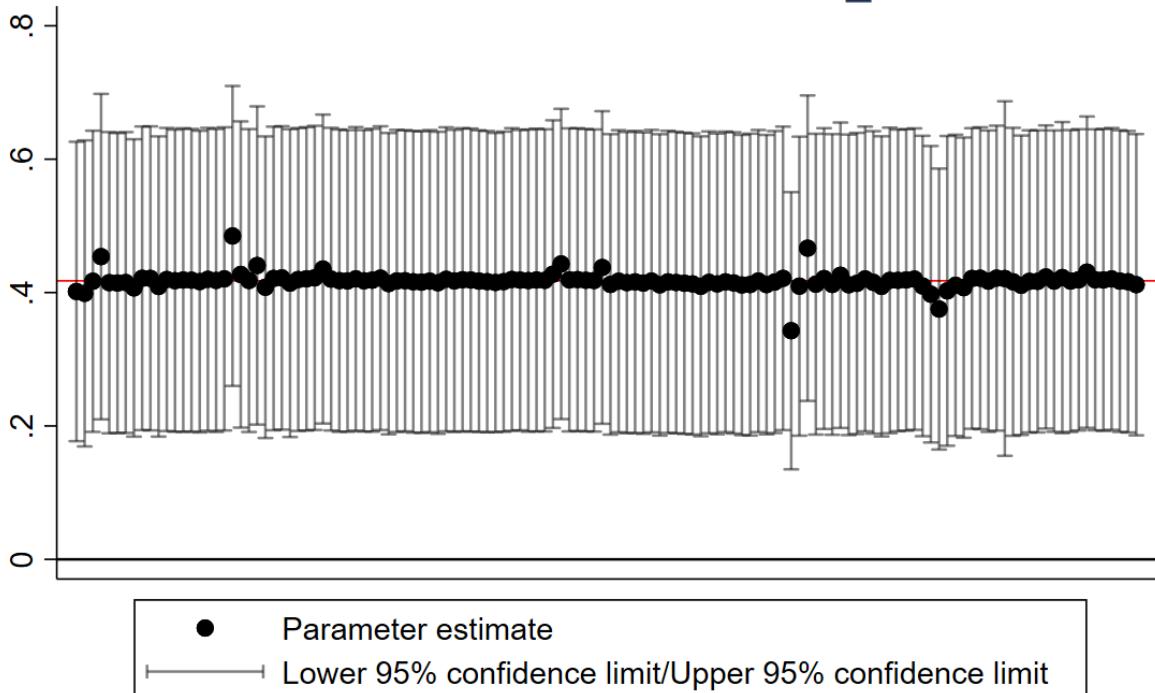


## 1.17 LOO Tests 2SLS

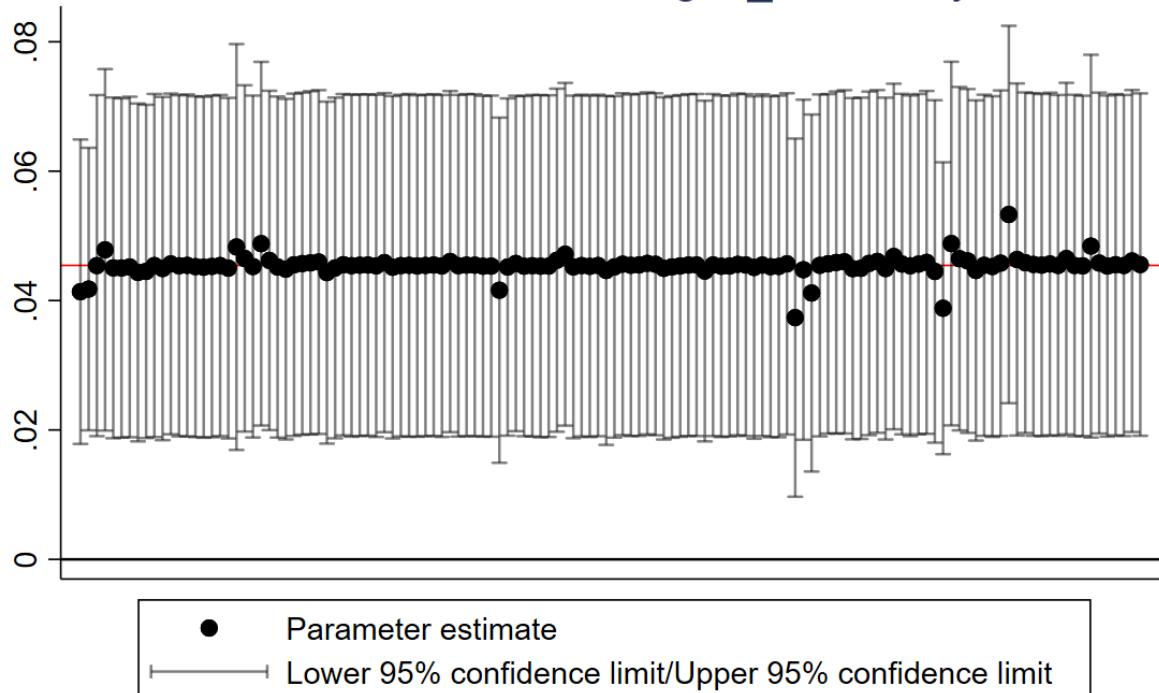
### 2SLS LOO, outcome cgoodman



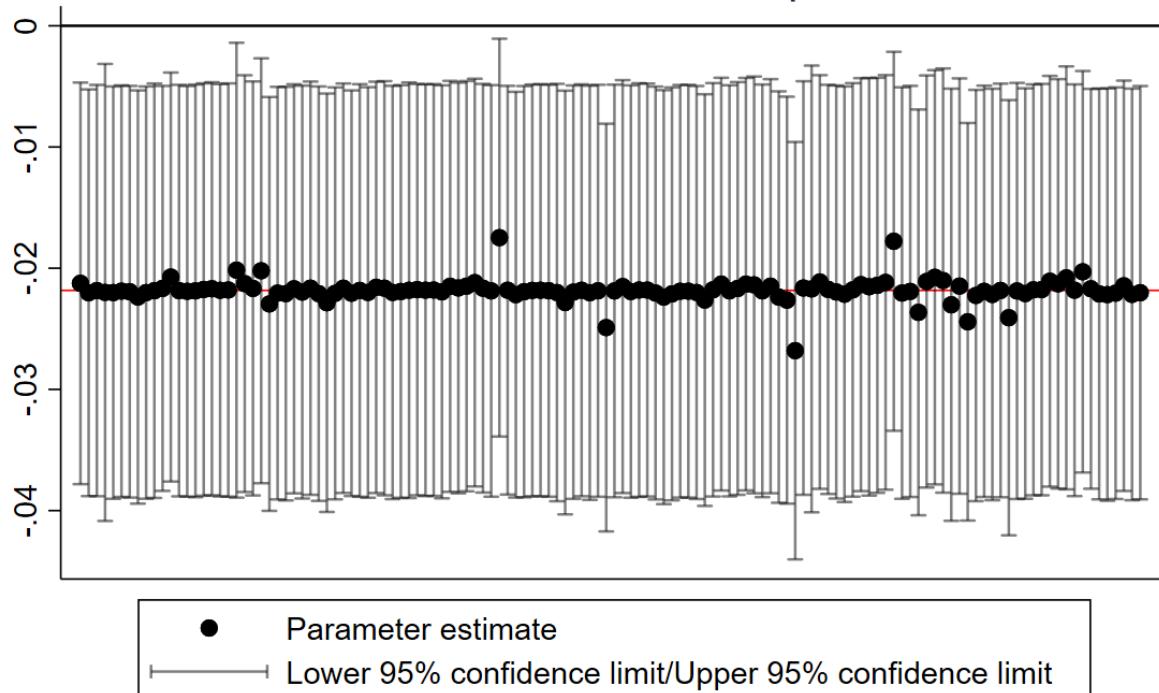
### 2SLS LOO, outcome schdist\_ind



### 2SLS LOO, outcome gen\_subcounty

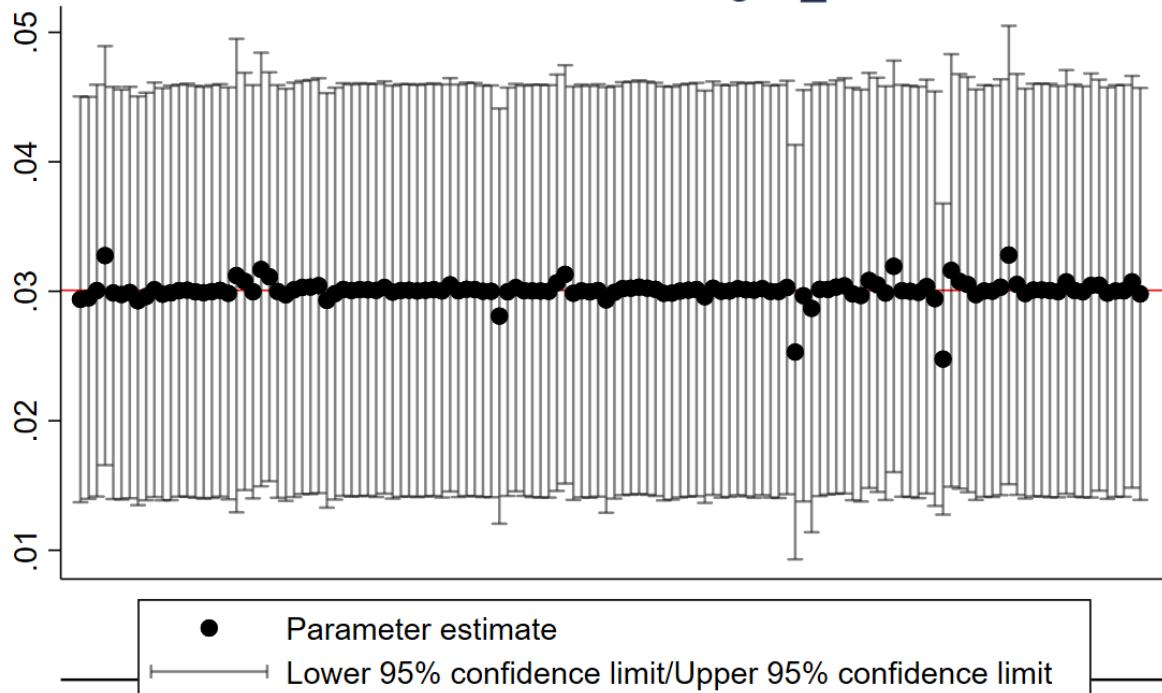


### 2SLS LOO, outcome spdist



130 out of 130 significant at the 0.05 level  
Red line indicates full sample point estimate

### 2SLS LOO, outcome gen\_town



## 1.18 Stacked Tables with Lagged Instrument Control

Table 59: Dererencourt Table Two with y=New Earliest Year of Municipal Incorporation, P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	5.960*** (0.983)		0.0263 (0.0496)	
Percentage Point Change in Urban Black Population		0.00140 (0.00266)		0.00380 (0.00710)
F-Stat	36.771			
Observations	390	260	260	260

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 60: Dererencourt Table Two with y=New Number of Independent School Districts, P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	5.960*** (0.983)		3.211*** (0.900)	
Percentage Point Change in Urban Black Population		0.222*** (0.0539)		0.464*** (0.129)
F-Stat	36.771			
Observations	390	260	260	260

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 61: Dererencourt Table Two with y=New Number of Subcounty Govts (town, twp, muni), P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	5.960*** (0.983)		0.173* (0.101)	
Percentage Point Change in Urban Black Population		0.0110* (0.00591)		0.0250* (0.0144)
F-Stat	36.771			
Observations	390	260	260	260

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 62: Dererencourt Table Two with y=New Number of Special Purpose Districts, P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	5.960*** (0.983)		-0.239 (0.162)	
Percentage Point Change in Urban Black Population		-0.0138 (0.00893)		-0.0346 (0.0253)
F-Stat	36.771			
Observations	390	260	260	260

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

## 1.19 Stacked Tables without Lagged Instrument Control

Table 63: Dererencourt Table Two with y=New Earliest Year of Municipal Incorporation, P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	5.960*** (0.983)		0.0565*** (0.0207)	
Percentage Point Change in Urban Black Population		0.00546*** (0.00208)		0.0116*** (0.00386)
F-Stat	36.771			
Observations	390	390	390	390

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 64: Dererencourt Table Two with y=New Number of Independent School Districts, P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	5.960*** (0.983)		3.084*** (0.637)	
Percentage Point Change in Urban Black Population		0.334*** (0.0537)		0.631*** (0.107)
F-Stat	36.771			
Observations	390	390	390	390

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 65: Dererencourt Table Two with y=New Number of Subcounty Govts (town, twp, muni), P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	5.960*** (0.983)		0.198*** (0.0531)	
Percentage Point Change in Urban Black Population		0.0204*** (0.00490)		0.0405*** (0.00929)
F-Stat	36.771			
Observations	390	390	390	390

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 66: Dererencourt Table Two with y=New Number of Special Purpose Districts, P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	5.960*** (0.983)		-0.128* (0.0661)	
Percentage Point Change in Urban Black Population		-0.0208*** (0.00680)		-0.0263** (0.0122)
F-Stat	36.771			
Observations	390	390	390	390

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

## 1.20 Stacked Tables without Lagged Instrument Control, 1950-1970 only

Table 67: Dererencourt Table Two with y=New Earliest Year of Municipal Incorporation, P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	10.52*** (1.158)		0.0663* (0.0357)	
Percentage Point Change in Urban Black Population		0.00396* (0.00228)		0.00667* (0.00352)
F-Stat	82.63800000000001			
Observations	260	260	260	260

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 68: Dererencourt Table Two with y=New Number of Independent School Districts, P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	10.52*** (1.158)		4.025*** (0.740)	
Percentage Point Change in Urban Black Population		0.281*** (0.0495)		0.405*** (0.0630)
F-Stat	82.63800000000001			
Observations	260	260	260	260

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 69: Dererencourt Table Two with y=New Number of Subcounty Govts (town, twp, muni), P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	10.52*** (1.158)		0.241*** (0.0740)	
Percentage Point Change in Urban Black Population		0.0160*** (0.00506)		0.0243*** (0.00697)
F-Stat	82.63800000000001			
Observations	260	260	260	260

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 70: Dererencourt Table Two with y=New Number of Special Purpose Districts, P.C. (urban) Pooled, controls, Urban Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Urban Black Population	10.52*** (1.158)		-0.233* (0.119)	
Percentage Point Change in Urban Black Population		-0.0154** (0.00762)		-0.0234* (0.0124)
F-Stat	82.63800000000001			
Observations	260	260	260	260

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

## 1.21 Stepwise Robustness Tables

Table 71: Outcome: cgoodman,

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
GM_raw_pp	-0.0139 (0.0147)	-0.00568 (0.00894)	0.0117* (0.00638)	0.0106 (0.00782)	0.00828 (0.00655)	0.00535 (0.00672)	0.00927 (0.00844)	0.00632 (0.00716)	0.00499 (0.00758)	-0.00468 (0.0142)
First stage F-Stat	117.57	96.38800000000001	68.633	56.256	57.904	49.437	36.905	56.28	56.768	33.802
GM (OLS)	-.009	-.002	.006	.004	.005	.002	.002	.003	.001	-.011
R2 (OLS)	.06	.255	.354	.364	.4	.426	.375	.42	.441	.596
Observations	130	130	130	130	130	130	130	130	130	130
Census Regions	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
blackmig3539_share	N	N	Y	Y	Y	Y	Y	Y	Y	Y
mfg_lfshare	N	N	N	Y	N	N	N	N	N	Y
frac_land	N	N	N	N	Y	N	N	N	N	Y
totfrac_in_main_city	N	N	N	N	N	Y	N	N	N	Y
m_rr_sqm2	N	N	N	N	N	N	Y	N	N	Y
popc1940	N	N	N	N	N	N	N	Y	N	Y
pop1940	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 72: Outcome: schdist\_ind,

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
GM_raw_pp	0.197*** (0.0720)	0.470*** (0.0921)	0.418*** (0.115)	0.302** (0.127)	0.381*** (0.108)	0.380*** (0.116)	0.274** (0.111)	0.382*** (0.114)	0.371*** (0.116)	0.0675 (0.132)
First stage F-Stat	117.57	96.38800000000001	68.633	56.256	57.904	49.437	36.905	56.28	56.768	33.802
GM (OLS)	.261	.351	.288	.153	.269	.258	.12	.258	.244	-.094
R2 (OLS)	.124	.35	.365	.442	.38	.376	.449	.377	.382	.6
Observations	130	130	130	130	130	130	130	130	130	130
Census Regions	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
blackmig3539_share	N	N	Y	Y	Y	Y	Y	Y	Y	Y
mfg_lfshare	N	N	N	Y	N	N	N	N	N	Y
frac_land	N	N	N	N	Y	N	N	N	N	Y
totfrac_in_main_city	N	N	N	N	N	Y	N	N	N	Y
m_rr_sqm2	N	N	N	N	N	N	Y	N	N	Y
popc1940	N	N	N	N	N	N	N	Y	N	Y
pop1940	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 73: Outcome: gen\_subcounty,

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
GM_raw_pp	-0.00492 (0.0155)	0.0225* (0.0129)	0.0454*** (0.0135)	0.0513*** (0.0164)	0.0373*** (0.0132)	0.0323** (0.0137)	0.0364** (0.0167)	0.0336** (0.0142)	0.0315** (0.0148)	0.0260 (0.0267)
First stage F-Stat	117.57	96.38800000000001	68.633	56.256	57.904	49.437	36.905	56.28	56.768	33.802
GM (OLS)	.006	.019	.026	.026	.022	.018	.011	.018	.015	-.007
R2 (OLS)	.007	.222	.243	.243	.322	.344	.319	.346	.367	.458
Observations	130	130	130	130	130	130	130	130	130	130
Census Regions	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
blackmig3539_share	N	N	Y	Y	Y	Y	Y	Y	Y	Y
mfg_lfshare	N	N	N	Y	N	N	N	N	N	Y
frac_land	N	N	N	N	Y	N	N	N	N	Y
totfrac_in_main_city	N	N	N	N	N	Y	N	N	N	Y
m_rr_sqm2	N	N	N	N	N	N	Y	N	N	Y
popc1940	N	N	N	N	N	N	N	Y	N	Y
pop1940	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 74: Outcome: spdist,

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
GM_raw_pp	-0.0220*** (0.00754)	-0.0360*** (0.00919)	-0.0218** (0.00866)	-0.0205* (0.0108)	-0.0142 (0.00932)	-0.0172* (0.00991)	-0.0231** (0.00928)	-0.0123 (0.00994)	-0.0121 (0.0102)	-0.0166 (0.0156)
First stage F-Stat	117.57	96.38800000000001	68.633	56.256	57.904	49.437	36.905	56.28	56.768	33.802
GM (OLS)	-.027	-.033	-.027	-.027	-.024	-.025	-.03	-.022	-.021	-.036
R2 (OLS)	.137	.217	.231	.231	.273	.236	.234	.263	.258	.379
Observations	130	130	130	130	130	130	130	130	130	130
Census Regions	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
blackmig3539_share	N	N	Y	Y	Y	Y	Y	Y	Y	Y
mfg_lfshare	N	N	N	Y	N	N	N	N	N	Y
frac_land	N	N	N	N	Y	N	N	N	N	Y
totfrac_in_main_city	N	N	N	N	N	Y	N	N	N	Y
m_rr_sqm2	N	N	N	N	N	N	Y	N	N	Y
popc1940	N	N	N	N	N	N	N	Y	N	Y
pop1940	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 75: Outcome: gen\_town,

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
GM_raw_pp	0.00870** (0.00414)	0.0259*** (0.00587)	0.0301*** (0.00812)	0.0372*** (0.00945)	0.0258*** (0.00786)	0.0239*** (0.00848)	0.0246** (0.00969)	0.0245*** (0.00836)	0.0239*** (0.00862)	0.0300** (0.0146)
First stage F-Stat	117.57	96.38800000000001	68.633	56.256	57.904	49.437	36.905	56.28	56.768	33.802
GM (OLS)	.012	.018	.016	.019	.014	.012	.007	.012	.011	.003
R2 (OLS)	.074	.3	.302	.313	.354	.362	.373	.363	.37	.413
Observations	130	130	130	130	130	130	130	130	130	130
Census Regions	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
blackmig3539_share	N	N	Y	Y	Y	Y	Y	Y	Y	Y
mfg_lfshare	N	N	N	Y	N	N	N	N	N	Y
frac_land	N	N	N	N	Y	N	N	N	N	Y
totfrac_in_main_city	N	N	N	N	N	Y	N	N	N	Y
m_rr_sqm2	N	N	N	N	N	N	Y	N	N	Y
popc1940	N	N	N	N	N	N	N	Y	N	Y
pop1940	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

## 1.22 Instrument Tables

Table 76: Alt Inst Tests Outcome: cgoodman

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GM_raw_pp	0.0117*	-0.00468	0.0117*	0.0234*	0.0100	0.0144**	-0.468	0.0102	0.0138	0.00601	0.00984
	(0.00638)	(0.0142)	(0.00638)	(0.0128)	(0.00644)	(0.00656)	(0.805)	(0.00731)	(0.00887)	(0.00703)	(0.00885)
First stage F-Stat	68.633	33.802	68.633	32.38	50.233	69.879	.311	75.34099999999999	6.482	33.981	5.516
GM (OLS)	.006	-.011	.006	.006	.006	.006	-.005	.007	.007	.007	.007
R2 (OLS)	.354	.596	.354	.354	.354	.354	.355	.297	.297	.297	.297
Observations	130	130	130	130	130	130	130	151	151	151	151
Baseline Controls	N	Y	N	N	N	N	N	N	N	N	N
Tot. pop. outcome	N	N	Y	N	N	N	N	N	N	N	N
State FE Inst.	N	N	N	Y	N	N	N	N	N	N	N
Top Urban Dropped Inst.	N	N	N	N	Y	N	N	N	N	N	N
State of Birth Inst.	N	N	N	N	N	Y	N	N	N	N	N
Southern White Inst.	N	N	N	N	N	N	Y	N	N	N	N
Southern Sample	N	N	N	N	N	N	N	Y	Y	Y	Y
Northern Texas	N	N	N	N	N	N	N	N	Y	N	Y
Rural Migrants Only	N	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 77: Alt Inst Tests Outcome: schdist\_ind

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GM_raw_pp	0.418*** (0.115)	0.0675 (0.132)	0.418*** (0.115)	0.533*** (0.140)	0.389*** (0.112)	0.439*** (0.114)	-3.763 (6.463)	0.399*** (0.112)	0.600*** (0.198)	0.332*** (0.115)	0.565** (0.225)
First stage F-Stat	68.633	33.802	68.633	32.38	50.233	69.879	.311	75.34099999999999	6.482	33.981	5.516
GM (OLS)	.288	-.094	.288	.288	.288	.288	-.199	.278	.278	.278	.278
R2 (OLS)	.365	.6	.365	.365	.365	.365	.341	.279	.279	.279	.279
Observations	130	130	130	130	130	130	130	151	151	151	151
Baseline Controls	N	Y	N	N	N	N	N	N	N	N	N
Tot. pop. outcome	N	N	Y	N	N	N	N	N	N	N	N
State FE Inst.	N	N	N	Y	N	N	N	N	N	N	N
Top Urban Dropped Inst.	N	N	N	N	Y	N	N	N	N	N	N
State of Birth Inst.	N	N	N	N	N	Y	N	N	N	N	N
Southern White Inst.	N	N	N	N	N	N	Y	N	N	N	N
Southern Sample	N	N	N	N	N	N	N	Y	Y	Y	Y
Northern Texas	N	N	N	N	N	N	N	N	Y	N	Y
Rural Migrants Only	N	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 78: Alt Inst Tests Outcome: gen\_subcounty

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GM_raw_pp	0.0454*** (0.0135)	0.0260 (0.0267)	0.0454*** (0.0135)	0.0563*** (0.0187)	0.0424*** (0.0135)	0.0433*** (0.0131)	-0.592 (0.989)	0.0426*** (0.0146)	0.0569*** (0.0183)	0.0374*** (0.0136)	0.0534*** (0.0182)
First stage F-Stat	68.633	33.802	68.633	32.38	50.233	69.879	.311	75.34099999999999	6.482	33.981	5.516
GM (OLS)	.026	-.007	.026	.026	.026	.026	-.02	.024	.024	.024	.024
R2 (OLS)	.243	.458	.243	.243	.243	.243	.236	.209	.209	.209	.209
Observations	130	130	130	130	130	130	130	151	151	151	151
Baseline Controls	N	Y	N	N	N	N	N	N	N	N	N
Tot. pop. outcome	N	N	Y	N	N	N	N	N	N	N	N
State FE Inst.	N	N	N	Y	N	N	N	N	N	N	N
Top Urban Dropped Inst.	N	N	N	N	Y	N	N	N	N	N	N
State of Birth Inst.	N	N	N	N	N	Y	N	N	N	N	N
Southern White Inst.	N	N	N	N	N	N	Y	N	N	N	N
Southern Sample	N	N	N	N	N	N	N	Y	Y	Y	Y
Northern Texas	N	N	N	N	N	N	N	N	Y	N	Y
Rural Migrants Only	N	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 79: Alt Inst Tests Outcome: spdist

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GM_raw_pp	-0.0218** (0.00866)	-0.0166 (0.0156)	-0.0218** (0.00866)	-0.0200* (0.0108)	-0.0226*** (0.00844)	-0.00979 (0.00975)	-0.0136 (0.0965)	-0.0222*** (0.00853)	-0.0648* (0.0366)	-0.0212** (0.00954)	-0.0692 (0.0428)
First stage F-Stat	68.633	33.802	68.633	32.38	50.233	69.879	.311	75.34099999999999	6.482	33.981	5.516
GM (OLS)	-.027	-.036	-.027	-.027	-.027	-.027	.018	-.022	-.022	-.022	-.022
R2 (OLS)	.231	.379	.231	.231	.231	.231	.208	.185	.185	.185	.185
Observations	130	130	130	130	130	130	130	151	151	151	151
Baseline Controls	N	Y	N	N	N	N	N	N	N	N	N
Tot. pop. outcome	N	N	Y	N	N	N	N	N	N	N	N
State FE Inst.	N	N	N	Y	N	N	N	N	N	N	N
Top Urban Dropped Inst.	N	N	N	N	Y	N	N	N	N	N	N
State of Birth Inst.	N	N	N	N	N	Y	N	N	N	N	N
Southern White Inst.	N	N	N	N	N	N	Y	N	N	N	N
Southern Sample	N	N	N	N	N	N	N	Y	Y	Y	Y
Northern Texas	N	N	N	N	N	N	N	N	Y	N	Y
Rural Migrants Only	N	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

Table 80: Alt Inst Tests Outcome: gen\_town

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GM_raw_pp	0.0301*** (0.00812)	0.0300** (0.0146)	0.0301*** (0.00812)	0.0301*** (0.00812)	0.0288*** (0.00820)	0.0260*** (0.00767)	-0.122 (0.191)	0.0291*** (0.00815)	0.0429*** (0.0143)	0.0281*** (0.00815)	0.0437*** (0.0160)
First stage F-Stat	68.633	33.802	68.633	32.38	50.233	69.879	.311	75.34099999999999	6.482	33.981	5.516
GM (OLS)	.016	.003	.016	.016	.016	.016	-.013	.014	.014	.014	.014
R2 (OLS)	.302	.413	.302	.302	.302	.302	.293	.247	.247	.247	.247
Observations	130	130	130	130	130	130	130	151	151	151	151
Baseline Controls	N	Y	N	N	N	N	N	N	N	N	N
Tot. pop. outcome	N	N	Y	N	N	N	N	N	N	N	N
State FE Inst.	N	N	N	Y	N	N	N	N	N	N	N
Top Urban Dropped Inst.	N	N	N	N	Y	N	N	N	N	N	N
State of Birth Inst.	N	N	N	N	N	Y	N	N	N	N	N
Southern White Inst.	N	N	N	N	N	N	Y	N	N	N	N
Southern Sample	N	N	N	N	N	N	N	Y	Y	Y	Y
Northern Texas	N	N	N	N	N	N	N	N	Y	N	Y
Rural Migrants Only	N	N	N	N	N	N	N	N	N	Y	Y

Standard errors in parentheses

\* p&lt;0.10, \*\* p&lt;0.05, \*\*\* p&lt;0.01

## 2 Total Populations

### 2.1 GM\_hat on all covariates

	1940-1970 Pooled	1940-1950	1950-1960	1960-1970	Stacked
mfg_lfshare	-0.00 (0.00)	0.03*** (0.01)	0.01*** (0.00)	-0.00 (0.00)	0.01*** (0.00)
blackmig3539	4.64*** (0.86)	1.31 (1.99)	4.42*** (0.34)	5.37*** (0.68)	3.40*** (0.94)
frac_land	0.49 (0.28)	0.73 (0.50)	0.16 (0.14)	0.15 (0.23)	0.35 (0.26)
transpo_cost_1920	-0.00 (0.01)	0.00 (0.04)	-0.00 (0.01)	0.01 (0.01)	0.00 (0.02)
coastal	-0.12 (0.10)	-0.35* (0.17)	-0.06 (0.05)	-0.09 (0.07)	-0.17 (0.10)
avg_precip	-0.01* (0.00)	0.00 (0.00)	0.00 (0.00)	-0.00 (0.00)	0.00 (0.00)
avg_temp	-0.00 (0.00)	-0.00 (0.00)	-0.00 (0.00)	-0.00 (0.00)	-0.00 (0.00)
n_wells	-0.00 (0.00)	-0.00 (0.00)	-0.00 (0.00)	-0.00* (0.00)	-0.00* (0.00)
totfrac_in_main_city	-0.25 (0.22)	0.24 (0.34)	0.16 (0.09)	-0.20 (0.18)	0.07 (0.15)
urbfrac_in_main_city	-0.00*** (0.00)	0.00 (0.00)	-0.00 (0.00)	-0.00*** (0.00)	-0.00 (0.00)
m_rr	0.00* (0.00)	0.00 (0.00)	-0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
m_rr_sqm2	581.81 (947.24)	1992.38 (1705.00)	882.01 (504.70)	508.58 (589.84)	1247.53 (1059.41)
reg2	0.10 (0.12)	0.51** (0.18)	0.08 (0.05)	0.05 (0.09)	0.22** (0.08)
reg3	-0.26 (0.29)	0.54 (0.59)	0.12 (0.15)	-0.35 (0.21)	0.14 (0.26)
reg4	0.29* (0.13)	-0.44 (0.24)	-0.12* (0.06)	0.14 (0.09)	-0.16 (0.11)
1940.decade					0.00 (.)
1950.decade					0.17* (0.08)
1960.decade					0.02 (0.08)

Standard errors in parentheses

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

## 2.2 Balance Table

Table 81

	1940-1970 Pooled	1940-1950	1950-1960	1960-1970	Stacked
mfg_lfshare on GM_hat	1.47 (1.76)	2.88*** (0.86)	10.51*** (2.93)	3.22 (2.21)	2.75*** (0.80)
frac_land on GM_hat	-0.00 (0.05)	0.04 (0.02)	0.23* (0.10)	-0.03 (0.09)	0.04* (0.02)
transpo_cost_1920 on GM_hat	-0.09 (0.15)	-0.06 (0.12)	-0.22 (0.38)	-0.08 (0.20)	-0.05 (0.10)
coastal on GM_hat	-0.02 (0.07)	0.01 (0.04)	0.16 (0.12)	-0.03 (0.10)	0.02 (0.04)
avg_precip on GM_hat	-4.35** (1.57)	0.38 (0.64)	4.09 (3.05)	-6.14** (2.26)	-0.12 (0.75)
avg_temp on GM_hat	-7.02 (3.62)	-1.05 (2.08)	-1.14 (7.95)	-9.28 (4.79)	-1.93 (2.23)
n_wells on GM_hat	-65.59 (50.42)	-33.69 (21.43)	-108.98 (81.41)	-91.60 (73.06)	-37.15 (19.68)
totfrac_in_main_city on GM_hat	0.02 (0.08)	0.07** (0.03)	0.34*** (0.09)	-0.01 (0.11)	0.07** (0.02)
urbfrac_in_main_city on GM_hat	-1359.17 (1426.77)	253.30 (279.12)	-789.69 (1182.64)	-2022.67 (2112.42)	-82.20 (312.79)
m_rr on GM_hat	5.1e+05* (2.6e+05)	1.1e+05 (1.1e+05)	3.3e+05 (4.3e+05)	6.5e+05 (3.6e+05)	1.7e+05 (1.4e+05)
m_rr_sqm2 on GM_hat	0.00 (0.00)	0.00** (0.00)	0.00** (0.00)	0.00 (0.00)	0.00** (0.00)
popc1940 on GM_hat	1.2e+06 (7.2e+05)	6.7e+05* (2.9e+05)	2.6e+06** (9.5e+05)	1.7e+06 (1.2e+06)	8.1e+05** (2.5e+05)
pop1940 on GM_hat	4.4e+05 (6.8e+05)	4.8e+05* (2.4e+05)	2.6e+06** (9.2e+05)	1.7e+05 (1.0e+06)	5.5e+05* (2.3e+05)

Standard errors in parentheses

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

## 2.3 Regressions Robust to Balance Table Covariates

Table 82: Outcome variable cgoodman

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp_totpop	1.53 (1.25)	0.50*** (0.14)	2.20*** (0.49)	-0.10 (0.67)	0.37*** (0.14)	1.42 (1.03)	0.29*** (0.09)	0.82** (0.33)	0.27 (0.58)	0.11 (0.10)
F-Stat	1.5	12.04	20.34	.02	6.71	1.89	10.65	6.08	.22	1.34
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp_totpop	-0.01 (0.01)	-0.00 (0.01)	-0.02 (0.01)	-0.02** (0.01)	-0.02** (0.01)	-0.01 (0.01)	0.03 (0.02)	0.01 (0.02)	-0.03*** (0.01)	0.00 (0.01)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp_totpop	0.15** (0.07)	-0.00 (0.01)	-0.02 (0.04)	0.06 (0.05)	0.01 (0.01)	0.20*** (0.06)	0.01 (0.01)	-0.03 (0.04)	0.06 (0.05)	0.01 (0.01)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp_totpop	0.10 (0.11)	-0.01 (0.02)	-0.01 (0.02)	-0.65 (4.28)	0.04 (0.04)	0.14 (0.13)	0.04 (0.05)	-0.04 (0.04)	0.22 (0.58)	0.09 (0.11)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 83: Outcome variable schdist\_ind

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp_totpop	1.53 (1.25)	0.50*** (0.14)	2.20*** (0.49)	-0.10 (0.67)	0.37*** (0.14)	1.42 (1.03)	0.29*** (0.09)	0.82** (0.33)	0.27 (0.58)	0.11 (0.10)
F-Stat	1.5	12.04	20.34	.02	6.71	1.89	10.65	6.08	.22	1.34
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp_totpop	1.14*** (0.32)	1.19*** (0.24)	1.67*** (0.36)	0.69** (0.30)	0.99*** (0.28)	1.07*** (0.21)	-0.52 (0.41)	-0.62 (0.41)	0.92*** (0.27)	-0.38** (0.16)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp_totpop	-0.70 (2.69)	0.62* (0.33)	4.69*** (1.31)	-0.43 (0.94)	0.87*** (0.27)	-3.85** (1.94)	-0.04 (0.38)	0.52 (0.83)	-0.61 (0.95)	0.30 (0.22)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp_totpop	-0.46 (2.07)	1.24*** (0.48)	2.13*** (0.48)	4.49 (25.67)	2.35*** (0.55)	-2.71 (3.02)	-0.14 (1.23)	0.64 (1.08)	-2.25 (7.69)	2.64 (2.90)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 84: Outcome variable gen\_subcounty

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp_totpop	1.53 (1.25)	0.50*** (0.14)	2.20*** (0.49)	-0.10 (0.67)	0.37*** (0.14)	1.42 (1.03)	0.29*** (0.09)	0.82** (0.33)	0.27 (0.58)	0.11 (0.10)
F-Stat	1.5	12.04	20.34	.02	6.71	1.89	10.65	6.08	.22	1.34
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp_totpop	-0.00 (0.02)	0.01 (0.02)	-0.03 (0.03)	-0.02 (0.01)	-0.01 (0.01)	0.01 (0.02)	0.03 (0.03)	-0.02 (0.03)	-0.02 (0.02)	-0.02 (0.02)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp_totpop	0.29*** (0.09)	-0.00 (0.02)	0.03 (0.08)	0.08 (0.07)	0.01 (0.01)	0.40*** (0.11)	0.05 (0.03)	0.06 (0.11)	0.09 (0.07)	0.03 (0.02)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp_totpop	0.19 (0.17)	-0.00 (0.04)	0.01 (0.04)	-0.80 (5.44)	0.04 (0.04)	0.28 (0.21)	0.16 (0.13)	0.08 (0.14)	0.32 (0.78)	0.27 (0.31)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 85: Outcome variable spdist

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp_totpop	1.53 (1.25)	0.50*** (0.14)	2.20*** (0.49)	-0.10 (0.67)	0.37*** (0.14)	1.42 (1.03)	0.29*** (0.09)	0.82** (0.33)	0.27 (0.58)	0.11 (0.10)
F-Stat	1.5	12.04	20.34	.02	6.71	1.89	10.65	6.08	.22	1.34
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp_totpop	-0.13*** (0.03)	-0.10** (0.05)	-0.14*** (0.05)	-0.15*** (0.04)	-0.13*** (0.03)	-0.12*** (0.03)	-0.03 (0.04)	-0.16 (0.11)	-0.19*** (0.04)	-0.06** (0.03)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp_totpop	-0.42* (0.24)	-0.06 (0.04)	-0.09 (0.13)	-0.15 (0.23)	-0.04 (0.05)	-0.23 (0.24)	0.01 (0.04)	0.01 (0.21)	-0.15 (0.23)	0.03 (0.03)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp_totpop	-0.27 (0.21)	-0.13 (0.10)	-0.04 (0.06)	1.60 (12.54)	-0.10 (0.12)	-0.16 (0.18)	0.04 (0.12)	0.02 (0.25)	-0.54 (0.95)	0.24 (0.32)
Observations	449.00	449.00	449.00	449.00	1347.00	449.00	130.00	130.00	449.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

## 2.4 Stacked Tables with Lagged Instrument Control

Table 86: Dererencourt Table Two with y=New Earliest Year of Municipal Incorporation, P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.682*** (0.178)		0.0502 (0.0376)	
Percentage Point Change in Total Black Population		-0.0180** (0.00888)		0.0947 (0.135)
F-Stat	14.681			
Observations	1347	898	898	898

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 87: Dererencourt Table Two with y=New Number of Independent School Districts, P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.682*** (0.178)		1.867** (0.855)	
Percentage Point Change in Total Black Population		1.035*** (0.374)		3.519*** (1.309)
F-Stat	14.681			
Observations	1347	898	898	898

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 88: Dererencourt Table Two with y=New Number of Subcounty Govts (town, twp, muni), P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.682*** (0.178)		0.0714** (0.0327)	
Percentage Point Change in Total Black Population		-0.0171 (0.0147)		0.135 (0.144)
F-Stat	14.681			
Observations	1347	898	898	898

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 89: Dererencourt Table Two with y=New Number of Special Purpose Districts, P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.682*** (0.178)		-0.130 (0.145)	
Percentage Point Change in Total Black Population		-0.163*** (0.0361)		-0.245* (0.142)
F-Stat	14.681			
Observations	1347	898	898	898

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

## 2.5 Stacked Tables without Lagged Instrument Control

Table 90: Dererencourt Table Two with y=New Earliest Year of Municipal Incorporation, P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.682*** (0.178)		0.0193 (0.0151)	
Percentage Point Change in Total Black Population		-0.00725 (0.00524)		0.0251 (0.0230)
F-Stat	14.681			
Observations	1347	1347	1347	1347

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 91: Dererencourt Table Two with y=New Number of Independent School Districts, P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.682*** (0.178)		1.787*** (0.370)	
Percentage Point Change in Total Black Population		1.298*** (0.270)		2.323*** (0.321)
F-Stat	14.681			
Observations	1347	1347	1347	1347

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 92: Dererencourt Table Two with y=New Number of Subcounty Govts (town, twp, muni), P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.682*** (0.178)		0.0251 (0.0186)	
Percentage Point Change in Total Black Population		-0.000501 (0.00964)		0.0327 (0.0261)
F-Stat	14.681			
Observations	1347	1347	1347	1347

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 93: Dererencourt Table Two with y=New Number of Special Purpose Districts, P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.682*** (0.178)		-0.137** (0.0591)	
Percentage Point Change in Total Black Population		-0.153*** (0.0227)		-0.178*** (0.0599)
F-Stat	14.681			
Observations	1347	1347	1347	1347

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

## 2.6 Stacked Tables without Lagged Instrument Control, 1950-1970 only

Table 94: Dererencourt Table Two with y=New Earliest Year of Municipal Incorporation, P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.935*** (0.321)		0.0379 (0.0286)	
Percentage Point Change in Total Black Population		-0.00963 (0.00615)		0.0362 (0.0374)
F-Stat	8.474			
Observations	898	898	898	898

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 95: Dererencourt Table Two with y=New Number of Independent School Districts, P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.935*** (0.321)		2.486*** (0.716)	
Percentage Point Change in Total Black Population		1.266*** (0.358)		2.376*** (0.428)
F-Stat	8.474			
Observations	898	898	898	898

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 96: Dererencourt Table Two with y=New Number of Subcounty Govts (town, twp, muni), P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.935*** (0.321)		0.0541* (0.0283)	
Percentage Point Change in Total Black Population		-0.00712 (0.0131)		0.0517 (0.0382)
F-Stat	8.474			
Observations	898	898	898	898

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

Table 97: Dererencourt Table Two with y=New Number of Special Purpose Districts, P.C. (total) Pooled, controls, Total Population

	First Stage (1)	OLS (2)	Reduced Form (3)	2SLS (4)
Predicted Percentage Point Change in Total Black Population	0.935*** (0.321)		-0.181* (0.109)	
Percentage Point Change in Total Black Population		-0.160*** (0.0308)		-0.173*** (0.0673)
F-Stat	8.474			
Observations	898	898	898	898

Standard errors in parentheses

\* p<0.10, \*\* p<0.05, \*\*\* p<0.01

### 3 Total Populations, Dcourt sample

#### 3.1 GM\_hat on all covariates

	1940-1970 Pooled	1940-1950	1950-1960	1960-1970	Stacked
mfg_lfshare	0.00 (0.00)	0.04** (0.01)	0.01* (0.00)	0.00 (0.00)	0.02*** (0.01)
blackmig3539	2.98*** (0.83)	-0.91 (2.57)	4.29*** (0.80)	2.96* (1.14)	1.10 (1.70)
frac_land	0.50 (0.35)	-0.20 (0.68)	-0.09 (0.18)	0.29 (0.28)	0.05 (0.33)
transpo_cost_1920	0.00 (0.04)	-0.02 (0.09)	-0.01 (0.03)	0.02 (0.02)	-0.00 (0.05)
coastal	-0.16 (0.08)	-0.16 (0.26)	-0.02 (0.07)	-0.14* (0.05)	-0.10 (0.13)
avg_precip	-0.01* (0.00)	0.00 (0.01)	0.00 (0.00)	-0.00 (0.00)	0.00 (0.00)
avg_temp	-0.00 (0.00)	-0.00 (0.01)	-0.00 (0.00)	0.00 (0.00)	-0.00 (0.00)
n_wells	-0.00** (0.00)	-0.00 (0.00)	-0.00 (0.00)	-0.00*** (0.00)	-0.00 (0.00)
totfrac_in_main_city	0.55 (0.37)	2.09* (0.88)	0.50* (0.25)	0.36 (0.23)	1.15** (0.43)
urbfrac_in_main_city	-0.43 (0.25)	-0.24 (0.46)	-0.05 (0.14)	-0.22 (0.18)	-0.15 (0.18)
m_rr	0.00** (0.00)	0.00 (0.00)	-0.00 (0.00)	0.00** (0.00)	0.00 (0.00)
m_rr_sqm2	-137.29 (1073.84)	1527.84 (2182.88)	1004.55 (647.90)	61.66 (692.19)	753.76 (1254.68)
reg2	0.18 (0.12)	0.42 (0.22)	0.03 (0.07)	0.15 (0.08)	0.24** (0.09)
reg3	0.05 (0.39)	0.36 (0.70)	0.11 (0.17)	0.05 (0.30)	0.30 (0.33)
reg4	0.32 (0.24)	-0.60 (0.48)	-0.19 (0.13)	0.10 (0.13)	-0.21 (0.26)
1940.decade					0.00 (.)
1950.decade					0.08 (0.09)
1960.decade					-0.14 (0.10)

Standard errors in parentheses

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

### 3.2 Balance Table

	1940-1970 Pooled	1940-1950	1950-1960	1960-1970	Stacked
mfg_lfshare on GM_hat	2.77 (1.83)	3.15* (1.27)	2.98 (2.85)	2.12 (2.64)	2.61** (1.00)
blackmig3539 on GM_hat	0.14*** (0.02)	0.04 (0.03)	0.16*** (0.01)	0.14*** (0.02)	0.07* (0.03)
frac_land on GM_hat	0.16 (0.09)	0.09 (0.05)	0.26* (0.12)	0.28 (0.14)	0.14** (0.05)
transpo_cost_1920 on GM_hat	-0.21* (0.11)	-0.13 (0.09)	-0.36* (0.15)	-0.37* (0.15)	-0.19** (0.06)
coastal on GM_hat	0.13 (0.07)	0.07 (0.03)	0.20* (0.09)	0.19 (0.11)	0.10** (0.04)
avg_precip on GM_hat	0.73 (1.97)	1.22 (1.26)	4.56 (2.70)	1.02 (2.96)	1.59 (1.12)
avg_temp on GM_hat	-5.61 (4.66)	-2.63 (2.85)	-2.77 (4.67)	-7.76 (7.19)	-3.14 (2.42)
n_wells on GM_hat	-56.10 (29.73)	-20.55 (16.82)	-25.35 (28.18)	-98.89 (52.28)	-30.00* (14.78)
totfrac_in_main_city on GM_hat	0.22** (0.07)	0.13** (0.05)	0.32*** (0.08)	0.35** (0.11)	0.18*** (0.04)
urbfrac_in_main_city on GM_hat	0.04 (0.05)	0.02 (0.03)	0.10 (0.07)	0.08 (0.08)	0.04 (0.03)
m_rr on GM_hat	6.8e+05** (2.3e+05)	2.1e+05 (1.1e+05)	5.1e+05 (2.9e+05)	1.0e+06* (4.1e+05)	3.6e+05* (1.5e+05)
m_rr_sqm2 on GM_hat	0.00 (0.00)	0.00* (0.00)	0.00** (0.00)	0.00 (0.00)	0.00** (0.00)
popc1940 on GM_hat	2.1e+06** (7.9e+05)	1.0e+06* (4.8e+05)	2.8e+06** (1.0e+06)	3.3e+06* (1.3e+06)	1.6e+06*** (4.6e+05)
pop1940 on GM_hat	2.4e+06** (8.0e+05)	1.2e+06* (5.0e+05)	3.2e+06** (9.9e+05)	3.8e+06** (1.3e+06)	1.8e+06*** (4.8e+05)

Standard errors in parentheses

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

### 3.3 Regressions Robust to Balance Table Covariates

Table 98: Outcome variable cgoodman

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp_totpop	4.67*** (1.07)	0.98*** (0.28)	1.90*** (0.32)	2.68*** (0.79)	1.14*** (0.26)	1.70*** (0.65)	0.25** (0.12)	1.18*** (0.38)	0.61** (0.26)	0.11 (0.10)
F-Stat	18.96	12.6	36.2	11.64	19.81	6.88	4.49	9.59	5.63	1.43
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp_totpop	0.02*** (0.01)	0.02** (0.01)	0.02** (0.01)	0.00 (0.00)	0.01** (0.01)	0.01 (0.02)	0.03 (0.02)	0.01 (0.02)	-0.02** (0.01)	0.00 (0.01)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp_totpop	0.13*** (0.03)	0.02 (0.01)	0.04* (0.02)	0.03 (0.02)	0.03*** (0.01)	0.14*** (0.05)	0.01 (0.02)	-0.02 (0.04)	0.00 (0.03)	0.01 (0.01)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp_totpop	0.03*** (0.01)	0.02* (0.01)	0.02** (0.01)	0.01** (0.01)	0.02*** (0.01)	0.08** (0.04)	0.04 (0.06)	-0.02 (0.03)	0.00 (0.04)	0.07 (0.10)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 99: Outcome variable schdist\_ind

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp_totpop	4.67*** (1.07)	0.98*** (0.28)	1.90*** (0.32)	2.68*** (0.79)	1.14*** (0.26)	1.70*** (0.65)	0.25** (0.12)	1.18*** (0.38)	0.61** (0.26)	0.11 (0.10)
F-Stat	18.96	12.6	36.2	11.64	19.81	6.88	4.49	9.59	5.63	1.43
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp_totpop	0.90*** (0.20)	1.07*** (0.22)	1.17*** (0.23)	0.41*** (0.13)	0.74*** (0.19)	0.10 (0.30)	-0.35 (0.36)	0.15 (0.38)	0.57*** (0.18)	-0.42*** (0.15)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp_totpop	5.12*** (1.13)	1.43*** (0.52)	3.41*** (0.65)	1.60*** (0.32)	1.66*** (0.38)	0.27 (1.35)	-0.12 (0.36)	1.96** (0.76)	0.20 (0.32)	0.37* (0.20)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp_totpop	1.10*** (0.22)	1.46*** (0.35)	1.79*** (0.42)	0.60*** (0.17)	1.45*** (0.23)	0.16 (0.76)	-0.48 (1.41)	1.66** (0.79)	0.32 (0.51)	3.27 (3.17)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 100: Outcome variable gen\_subcounty

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp_totpop	4.67*** (1.07)	0.98*** (0.28)	1.90*** (0.32)	2.68*** (0.79)	1.14*** (0.26)	1.70*** (0.65)	0.25** (0.12)	1.18*** (0.38)	0.61** (0.26)	0.11 (0.10)
F-Stat	18.96	12.6	36.2	11.64	19.81	6.88	4.49	9.59	5.63	1.43
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp_totpop	0.07*** (0.01)	0.07*** (0.02)	0.07*** (0.02)	0.03*** (0.01)	0.05*** (0.01)	-0.01 (0.02)	0.04 (0.03)	-0.02 (0.03)	-0.02 (0.02)	-0.02 (0.02)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp_totpop	0.48*** (0.08)	0.09** (0.04)	0.19*** (0.05)	0.18*** (0.04)	0.11*** (0.03)	0.37*** (0.12)	0.04 (0.04)	0.05 (0.11)	0.10 (0.07)	0.03 (0.02)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp_totpop	0.10*** (0.02)	0.09*** (0.03)	0.10*** (0.02)	0.07*** (0.02)	0.09*** (0.02)	0.22* (0.12)	0.16 (0.14)	0.04 (0.10)	0.16 (0.14)	0.23 (0.26)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$

Table 101: Outcome variable spdist

	Basic controls					Robust controls				
	(1) 1940-1970 Pooled	(2) 1940-1950	(3) 1950-1960	(4) 1960-1970	(5) Stacked	(6) 1940-1970 Pooled	(7) 1940-1950	(8) 1950-1960	(9) 1960-1970	(10) Stacked
<b>Panel A: First Stage</b>										
GM_hat_raw_pp_totpop	4.67*** (1.07)	0.98*** (0.28)	1.90*** (0.32)	2.68*** (0.79)	1.14*** (0.26)	1.70*** (0.65)	0.25** (0.12)	1.18*** (0.38)	0.61** (0.26)	0.11 (0.10)
F-Stat	18.96	12.6	36.2	11.64	19.81	6.88	4.49	9.59	5.63	1.43
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel B: OLS</b>										
GM_raw_pp_totpop	-0.08*** (0.02)	-0.07*** (0.02)	-0.12** (0.05)	-0.05*** (0.02)	-0.07*** (0.02)	-0.10*** (0.03)	-0.07* (0.04)	-0.16** (0.08)	-0.16*** (0.03)	-0.05* (0.03)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel C: Reduced Form</b>										
GM_hat_raw_pp_totpop	-0.40*** (0.11)	-0.03 (0.05)	-0.17* (0.10)	-0.13** (0.05)	-0.06 (0.04)	-0.27* (0.14)	0.03 (0.06)	-0.13 (0.16)	-0.15* (0.08)	0.02 (0.03)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00
<b>Panel D: 2SLS</b>										
GM_raw_pp_totpop	-0.09*** (0.02)	-0.03 (0.05)	-0.09* (0.05)	-0.05** (0.02)	-0.05* (0.03)	-0.16* (0.08)	0.13 (0.27)	-0.11 (0.14)	-0.24* (0.14)	0.14 (0.26)
Observations	130.00	130.00	130.00	130.00	390.00	130.00	130.00	130.00	130.00	390.00

Columns 1-4 include region fixed effects, column 5 includes region and decade fixed effects. Columns 6-7 include region fixed effects and all significant covariates from the corresponding balance table. Column 10 includes region and decade fixed effects and all significant covariates from the corresponding balance table.  $p < 0.10$ , \*\*  $p < 0.05$ , \*\*\*  $p < 0.01$