

Title

By: Benjamin Lee (1007236475) & Jacob Li (1006824750)

ECO375: Applied Econometrics

University of Toronto

Department of Economics

March 28, 2023

Abstract:

1 Introduction

2 Context and Data

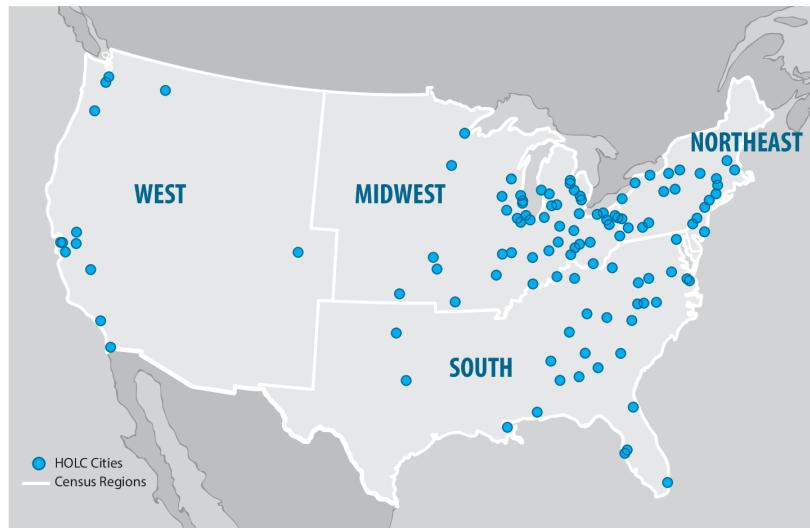


Figure 1: Locations of cities mapped by the HOLC in the 1930s

	count	mean	sd	min	max
Grade A share	6116	.0517	.182	0	1
Grade B share	6116	.201	.334	0	1
Grade C share	6116	.453	.421	0	1
Grade D share	6116	.279	.402	0	1
Dem share	6073	.791	.149	.0415	.979
Median age	6109	36.1	6.51	10.9	72.4
M-F ratio	6109	97	55.4	34.7	3239
Less HS share	6110	.162	.117	0	.646
HS share	6110	.251	.119	0	.715
Some college share	6110	.26	.0955	0	.869
Bachelor's share	6110	.327	.232	0	1
White share	6113	.399	.29	0	.955
Black share	6113	.271	.303	0	.976
Asian share	6113	.088	.131	0	.911
Observations	6116				

Table 1: Summary statistics of census tracts with more than 90% of area in HOLC maps

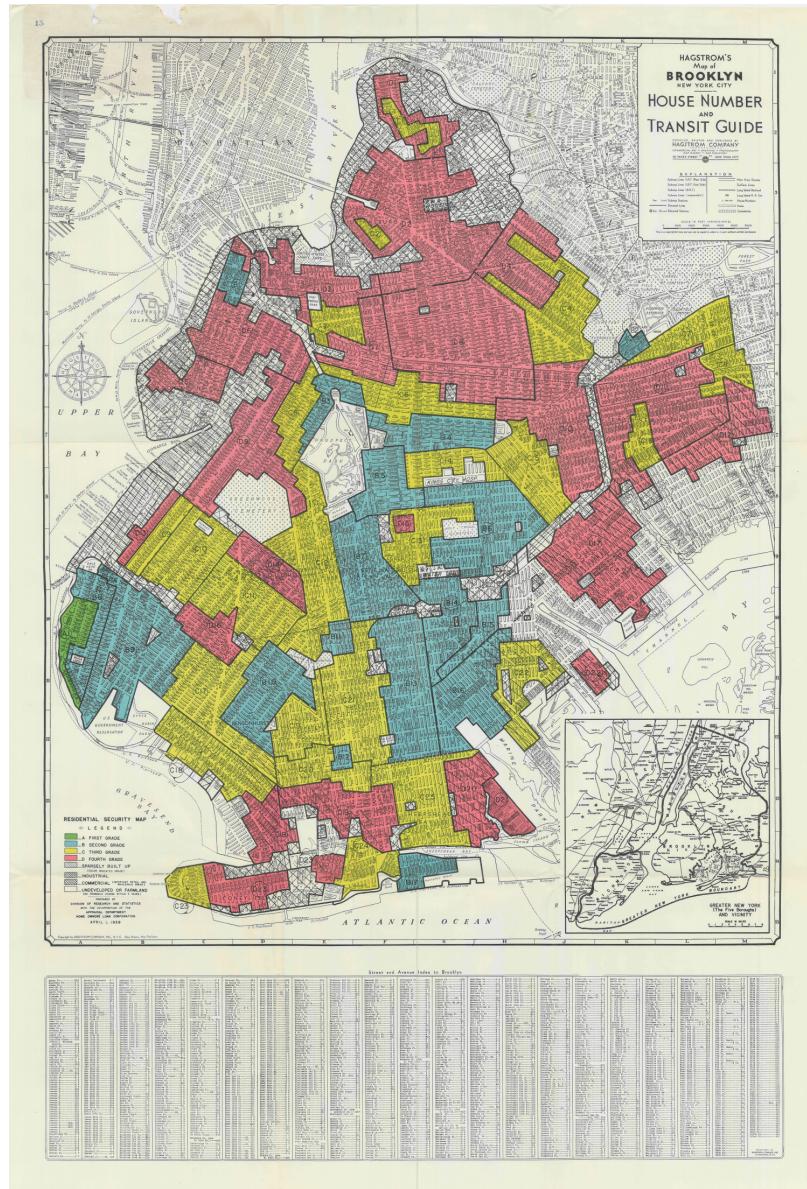


Figure 2: a

3 Regression Analysis

4 Multiple Linear Regression

5 Limitations of Results

6 Conclusion

7 Appendix

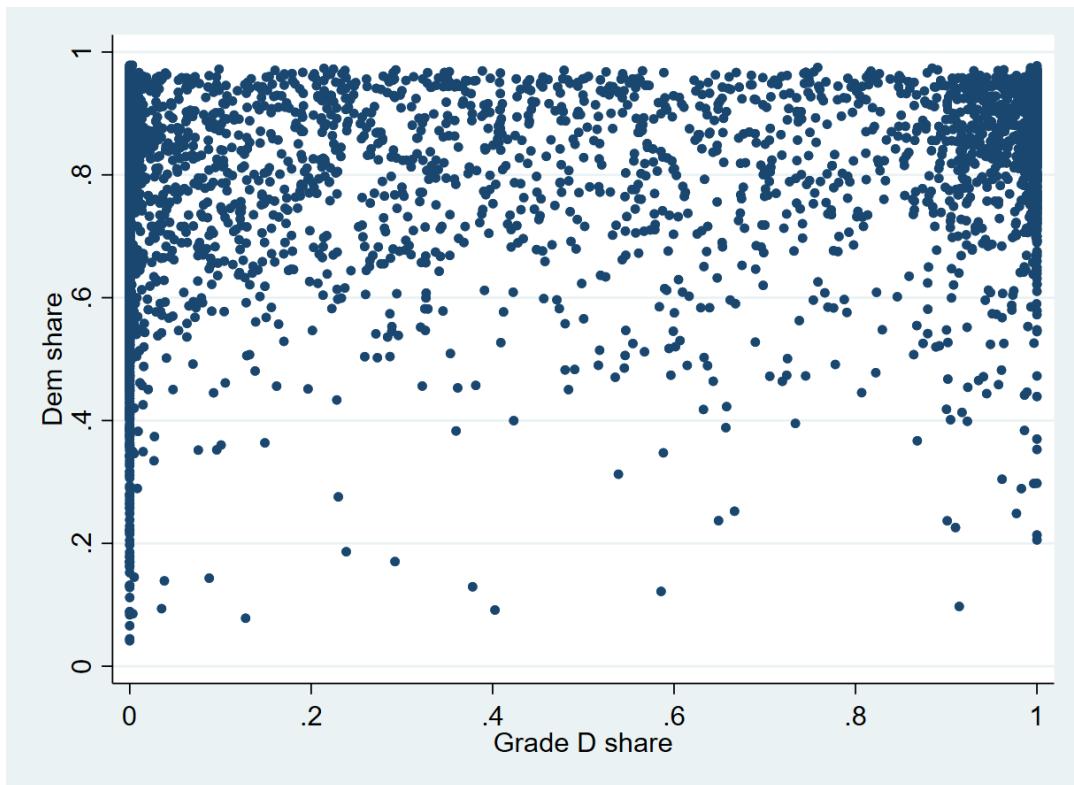


Figure 3: Scatterplot of Democrat vote share on Grade D percentage

	(1) Dem share	(2) Dem share	(3) Dem share	(4) Dem share	(5) Dem share	(6) Dem share
Grade D share	0.0740*** (0.00414)	0.0801*** (0.0174)	0.523*** (0.0820)	0.0317* (0.0176)	0.116*** (0.0385)	0.0803* (0.0434)
Grade C share			0.0224** (0.0113)	0.213*** (0.0566)	0.0158* (0.00925)	0.124*** (0.0366)
Grade D squared				-1.250*** (0.218)		-0.254** (0.109)
Grade D cubed					0.174** (0.0728)	0.0762 (0.0647)
Grade C squared				-0.625*** (0.123)		-0.291*** (0.0684)
Grade C cubed					0.188*** (0.0441)	
Median income ('000s)					-0.0000210 (0.000261)	-0.0000139 (0.000263)
HS share					-0.116*** (0.0370)	-0.117*** (0.0370)
Some college share					0.0839 (0.0837)	0.0846 (0.0832)
Bachelor's share					0.462*** (0.115)	0.461*** (0.115)
White share					-0.530*** (0.148)	-0.528*** (0.148)
Black share					0.0529 (0.0650)	0.0535 (0.0651)
Asian share					-0.328*** (0.0621)	-0.326*** (0.0621)
Median age					-0.00184*** (0.000558)	-0.00182*** (0.000556)
Constant	0.771*** (0.00240)	0.651*** (0.00556)	0.643*** (0.00720)	0.987*** (0.0358)	0.981*** (0.0353)	1.000*** (0.0425)
City fixed effects	No	Yes	Yes	Yes	Yes	Yes
Observations	6073	6073	6073	6026	6026	6026
Adjusted R ²	0.0397	0.263	0.269	0.742	0.742	0.741

Standard errors in parentheses

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

Table 2: Multiple linear regression results