

Redlining - All Grades

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Redlining Data

Pulling some demographic / descriptive variables and categorizing based off HOLC grades for Redlining Presentation for Black History Month 2023.

Pulling the categorical data

The spreadsheet created by Emily to classify census tracts

GEOID	Census Tract	HOLC Grade	A (%)	B (%)	C (%)	D (%)	pop1950
25025070103	701.03	D	NA	NA	NA	26.9107341	21
25025060603	606.03	NonRes	NA	NA	NA	NA	75
25025060602	606.02	NonRes	NA	NA	NA	NA	121
25025981100	9811	NonRes	NA	0.1884359	1.309991	NA	122
25025070104	701.04	NonRes	NA	NA	NA	0.1182820	168
25025061204	612.04	NonRes	NA	NA	NA	0.3834014	232

The census data

Now to look at specific variables.

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HOLC Grade	pop1950	pop2021	perc_pop_change
A	2687	2453	-0.0870860
B	45161	42196	-0.0656540
C	385069	364149	-0.0543279
D	360731	245221	-0.3202109
NonRes	7796	18795	1.4108517

Tenure

HOLC Grade	total_housingunits_1950		Ownership Rate 1950	Ownership Rate 2021	Change in units	Change in ownership rate
A	961	717	0.4867503	0.8928200	0.3403068	0.4060696
B	18414	12908	0.3834831	0.4629087	0.4265572	0.0794255
C	140100	110020	0.2974823	0.3694575	0.2734048	0.0719753
D	105036	96958	0.1641123	0.2950322	0.0833144	0.1309199
NonRes	7439	NA	NA	0.3289421	NA	NA

Race and Ethnicity

Race and Ethnicity in 5 categories, counts:

HOLC Grade	White	Black	APIA	AIAN	Other	Hispanic/Latino
A	1931	125	173	6	114	104
B	28071	3757	3942	9	1154	5263
C	140979	105091	30732	434	19603	67310
D	113480	35609	26726	869	9957	58580
NonRes	11426	1368	3236	45	645	2075

Race and Ethnicity in 5 categories, as a share of each HOLC grade

HOLC Grade	White	Black	APIA	AIAN	Other	Hispanic/Latino
A	0.7871993	0.0509580	0.0705259	0.0024460	0.0464737	0.0423971
B	0.6652526	0.0890369	0.0934212	0.0002133	0.0273486	0.1247275
C	0.3871465	0.2885934	0.0843940	0.0011918	0.0538324	0.1848419
D	0.4627662	0.1452119	0.1089874	0.0035437	0.0406042	0.2388866
NonRes	0.6079276	0.0727853	0.1721735	0.0023943	0.0343176	0.1104017

Poverty

HOLC Grade	total	in_pov	Poverty Rate
A	2113	200	0.0946522
B	38111	4494	0.1179187
C	345858	58277	0.1684998
D	230212	44803	0.1946163
NonRes	13827	3221	0.2329500

Aggregate Household Income

HOLC Grade	Aggregate Household Income
A	182127900
B	3059936000

HOLC Grade	Aggregate Housheold Income
C	14517522400
D	13502691100
NonRes	NA

Education

Other

- Also being pulled will be household income, value, and gross rent

MEDIAN VALUES (2021\$)	A	B	C	D	NonRes	Boston
housing value	867324.09211	722252.16315	532588.36059	709458.26507	265181.40016	659700.00000
household income	163446.70076	112283.33367	76738.28063	80873.85011	118673.26520	79283.00000
gross rent	2791.08333	1528.53827	1385.00407	1357.47408	2205.27548	1808.00000
travel time to work (minutes)	31.89954	30.08615	31.66658	27.83611	18.67973	27.02407