

How to Use the AFFH Data and Mapping Tool for Fair Housing Planning



LEARNING OBJECTIVES

- Using the AFFH-T Data and Mapping Tool
- Using the AFFH-T Raw Data
- Employing both tools in real world fair housing planning



Part I: Using the AFFH-T Data and Mapping Tool



OVERVIEW OF THE DATA AND MAPPING TOOL

What is it?

- Includes both tabular data and maps for local and regional analysis areas
- Powerful analysis tools built into the interface
- Free and publicly accessible

Why is it valuable?

- Enables standardization and transparency for fair housing planning
- Allows public to analyze fair housing data with no GIS experience required
- Enables grantees and PHAs to undertake key fair housing planning tasks without needing in-house analyst capacity or consultant support



OVERVIEW OF THE DATA AND MAPPING TOOL (cont'd)

- Demographic summary
- Segregation/Integration
- R/ECAPs
- Disparities in Access to Opportunity
 - Education
 - Employment
 - Transportation
 - Low poverty exposure
 - Environmentally healthy neighborhood
 - Patterns in disparities to access to opportunity
- Disproportionate Housing Needs
- Publicly-supported Housing
- Disability and Access
- Fair Housing Enforcement, Outreach Capacity, and Resources



OVERVIEW OF THE DATA AND MAPPING TOOL ACCESS

To access the tool:

<https://www.hud.gov/AFFH>

Or

<https://egis.hud.gov/affht/>



BUILD AN AFFH MAP

STEP 1: SELECT A PROGRAM PARTICIPANT TYPE

STEP 2: SELECT A STATE

STEP 3: SELECT A JURISDICTION

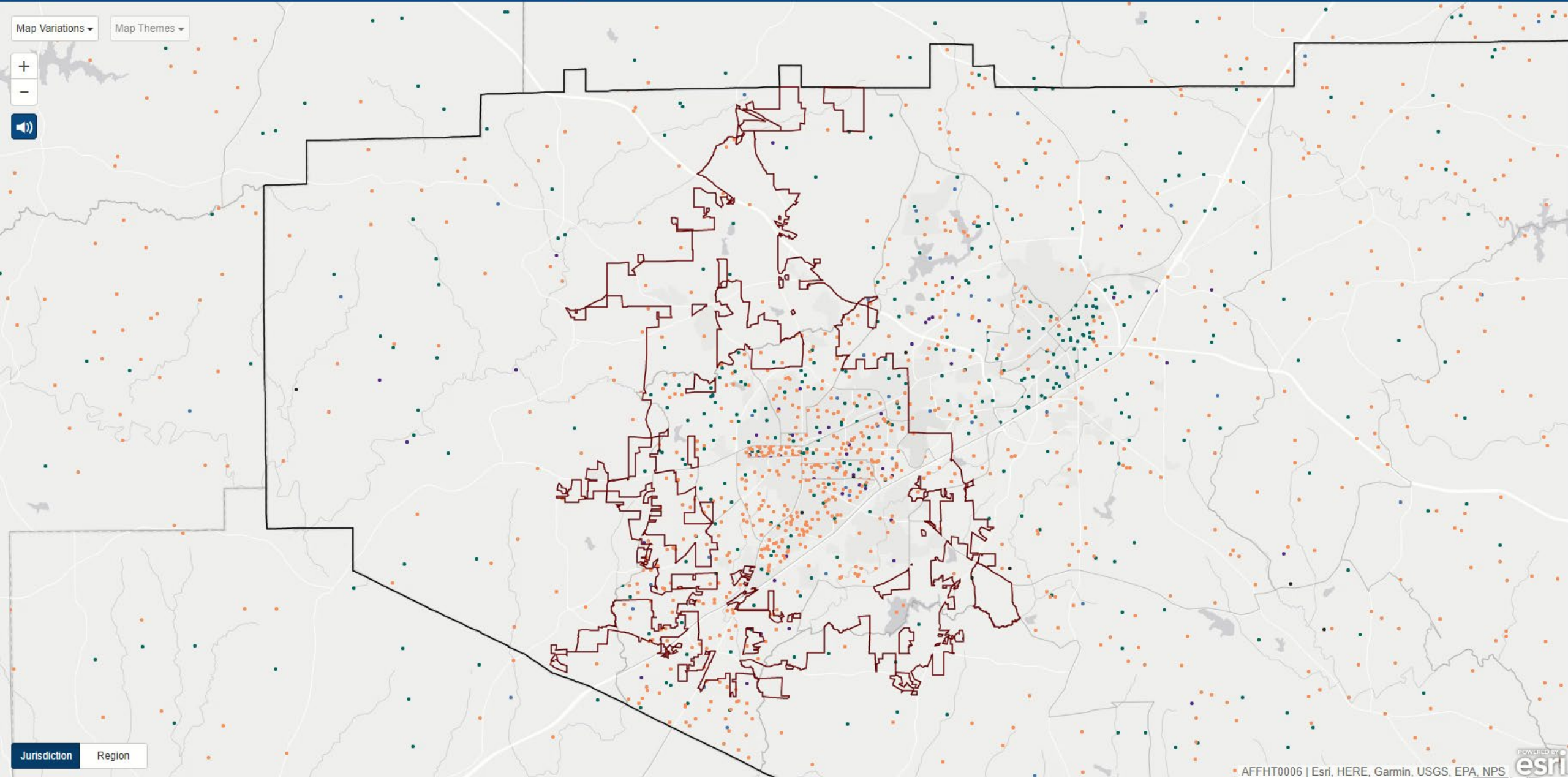
You must select a STATE first.

Region: No jurisdiction selected

Jurisdiction

Region

Select a Map >





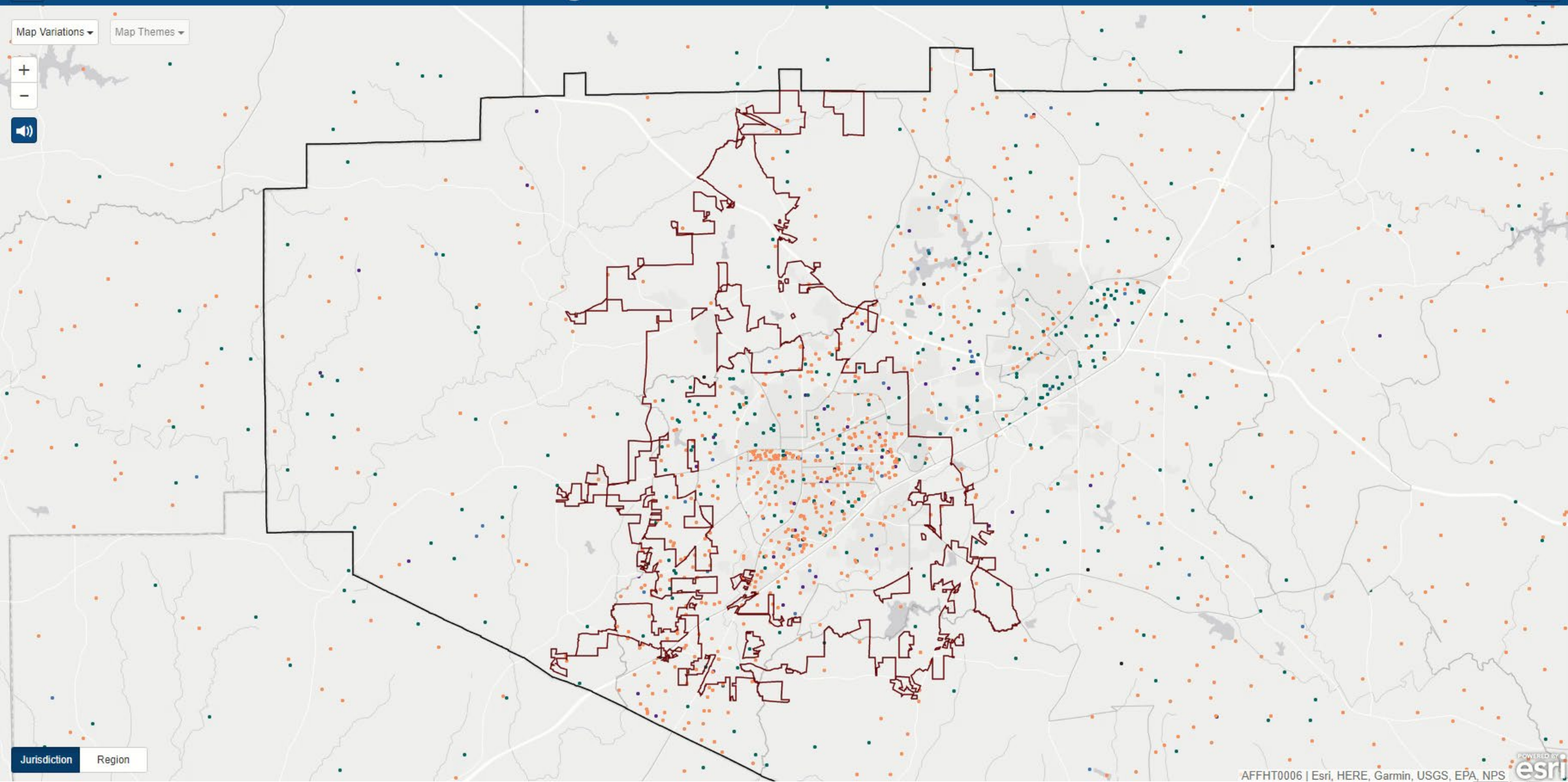
Map Variations ▾

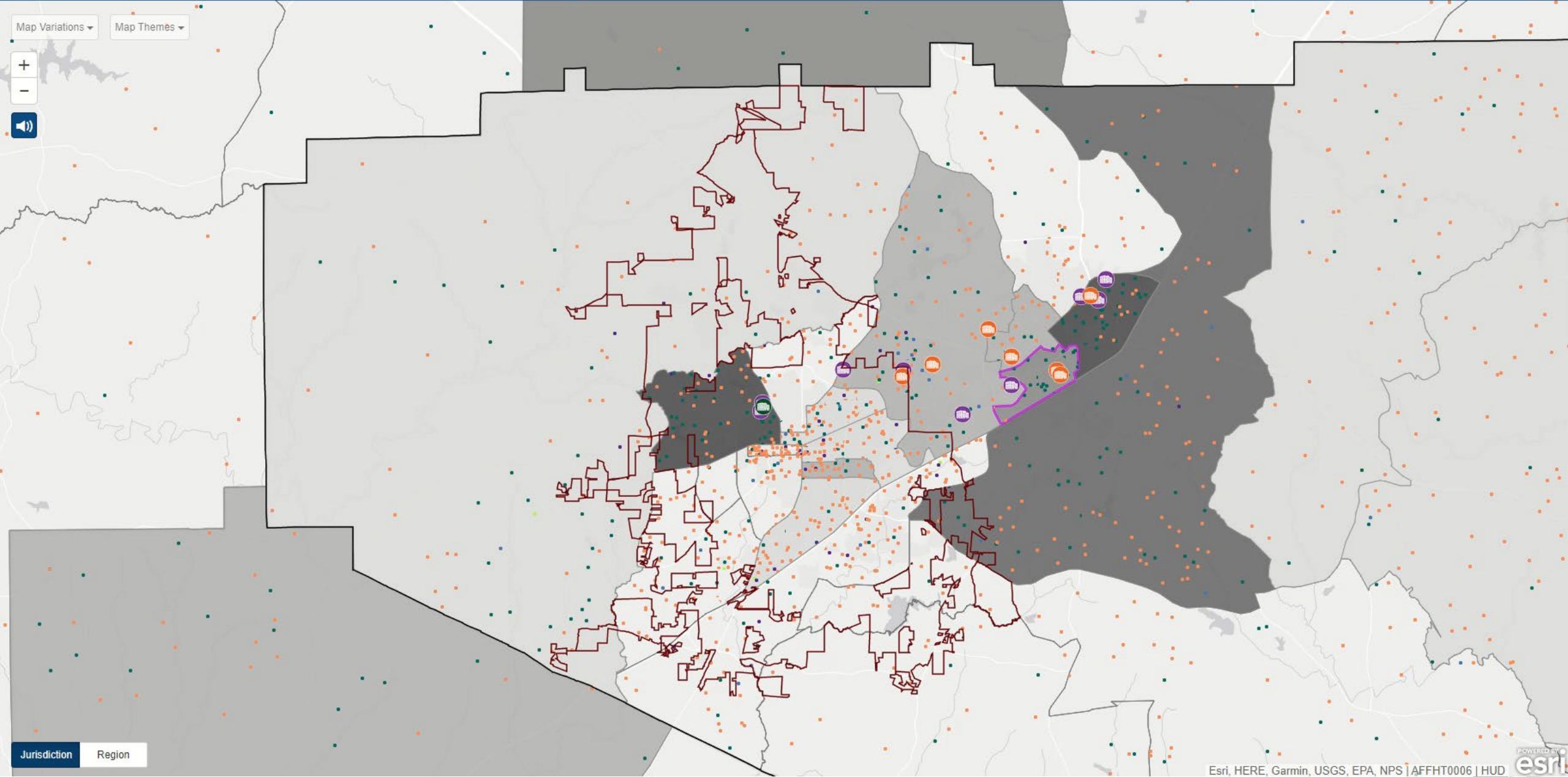
Map Themes ▾

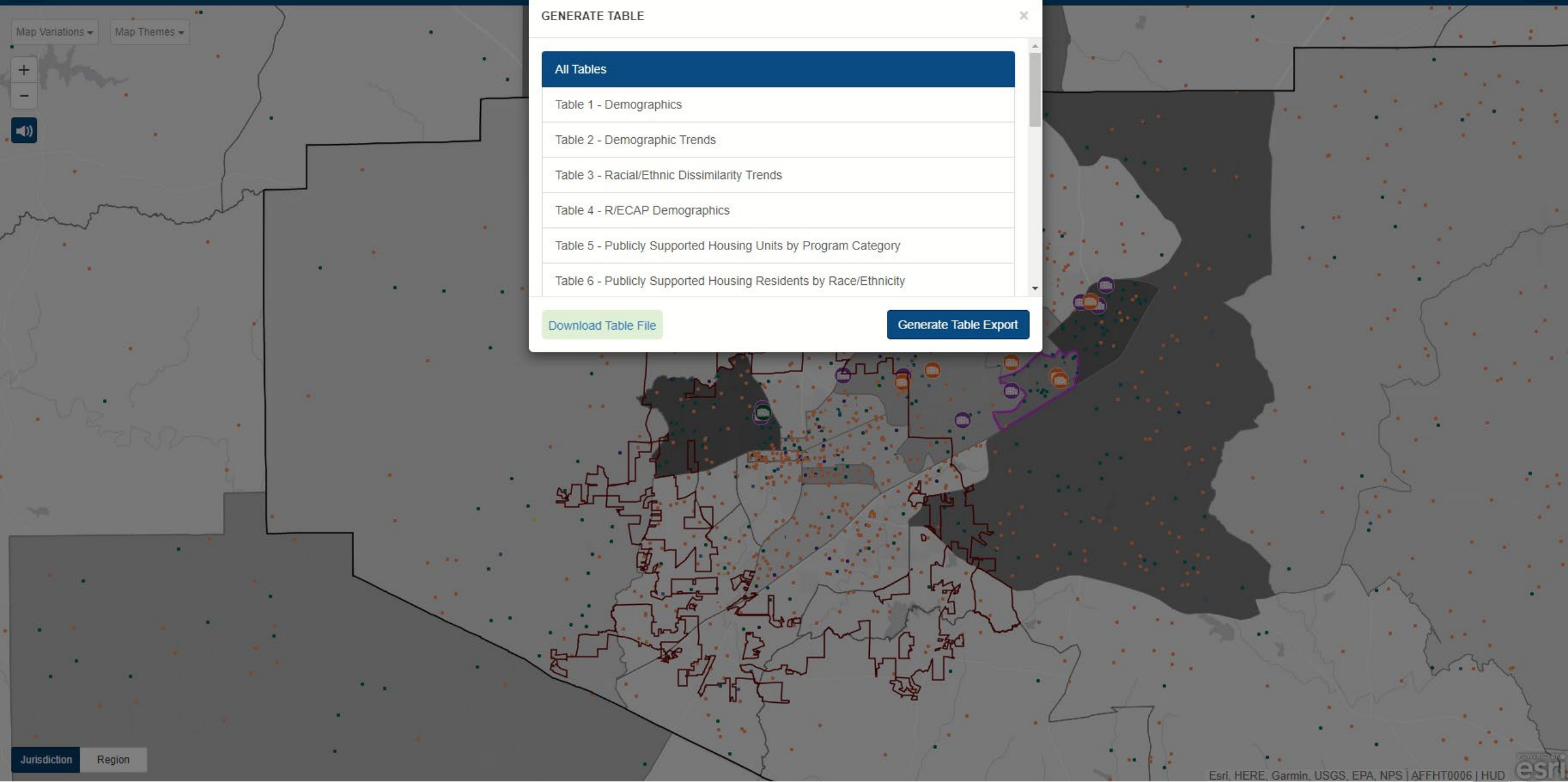


Jurisdiction

Region







GENERATE TABLE

All Tables

Table 1 - Demographics

Table 2 - Demographic Trends

Table 3 - Racial/Ethnic Dissimilarity Trends

Table 4 - R/ECAP Demographics

Table 5 - Publicly Supported Housing Units by Program Category

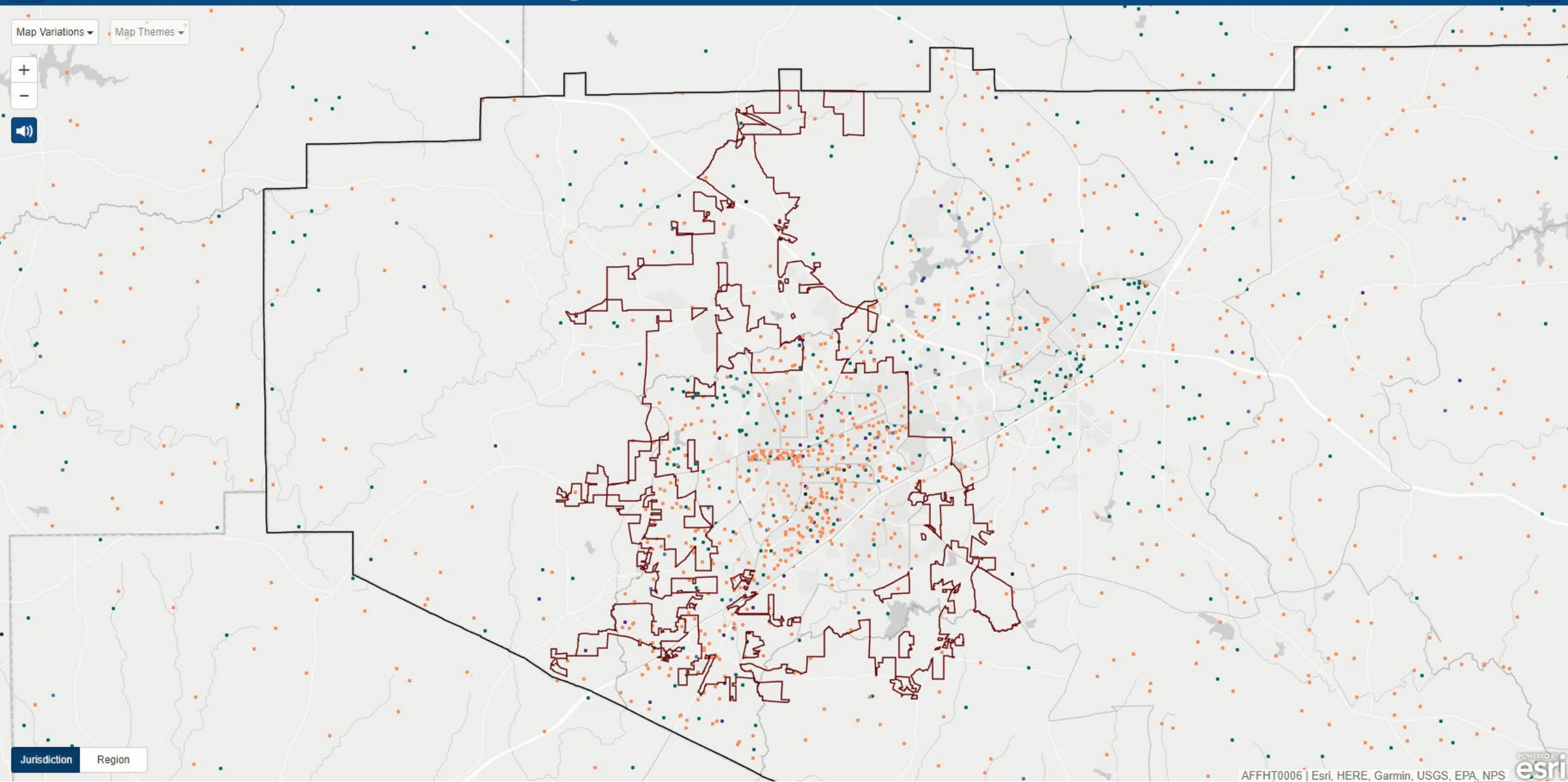
Table 6 - Publicly Supported Housing Residents by Race/Ethnicity

Download Table File

Generate Table Export

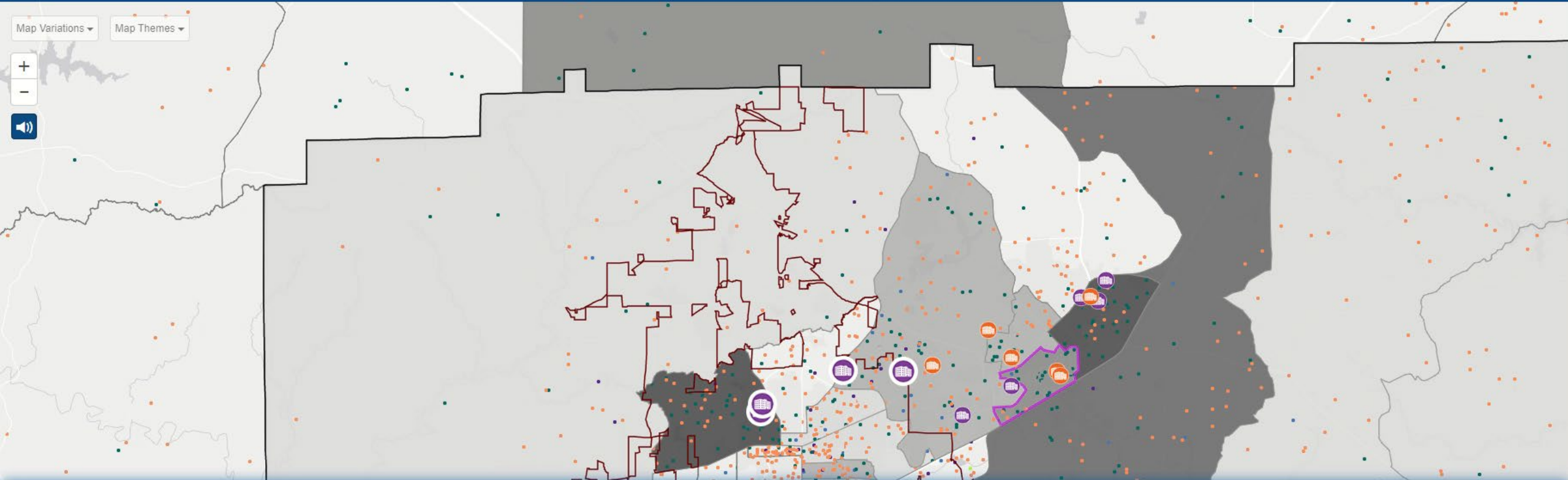


Map Variations ▾ Map Themes ▾



Jurisdiction Region



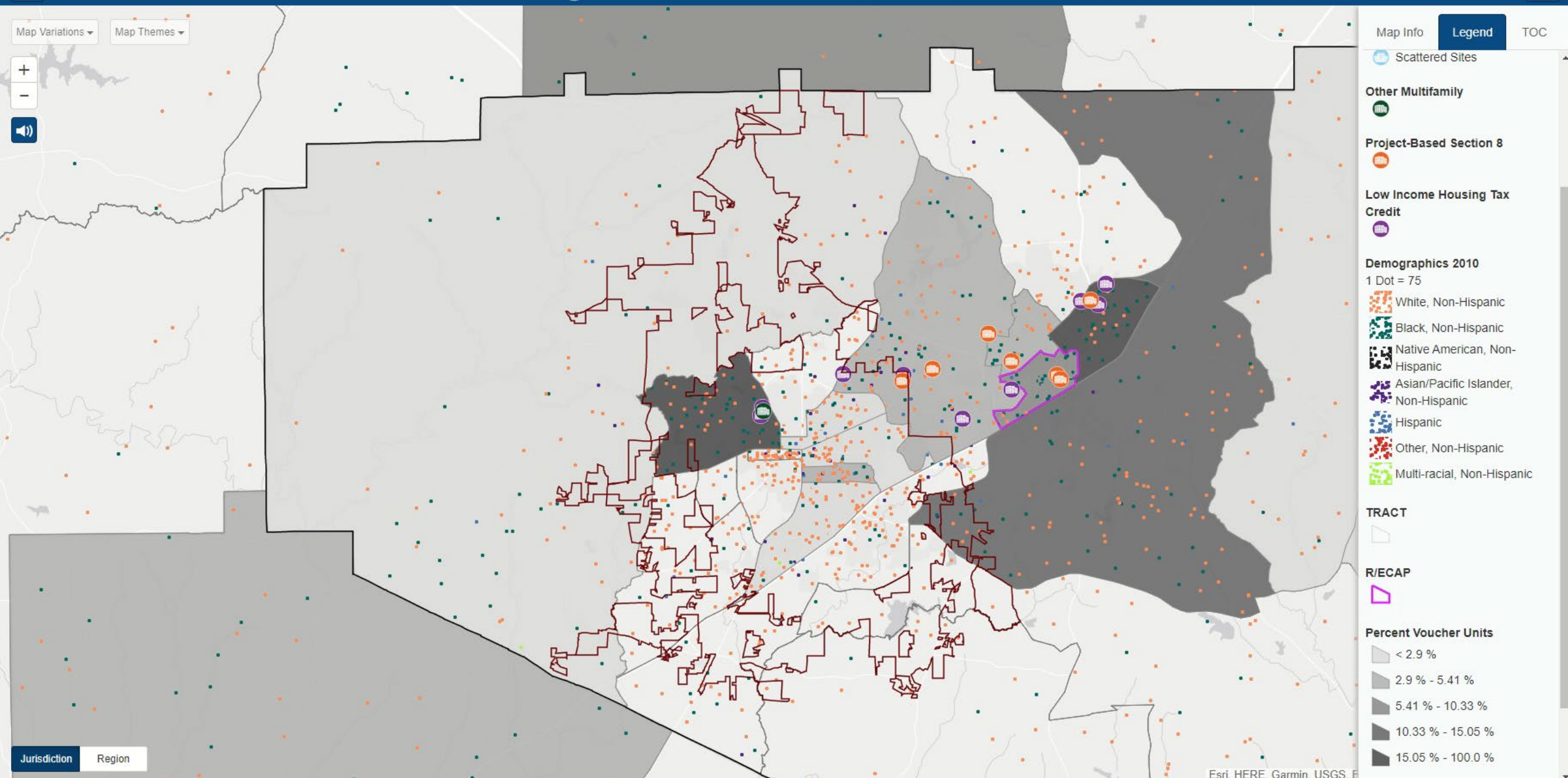


Query Results ✕

Export to Excel

Results Summary All Records

Project Name	Program Type	Tract ID	Property Asian Pct	Tract Asian Pct	Property Hispanic Pct	Tract Hispanic Pct	Property Black Pct	Tract Black Pct	Property White Pct	Tract White Pct	Units in Project ⁺
HUDSON ARMS APTS	LIHTC	01081040902		4.77%		4.58%		20.61%		68.04%	32
EASEHOUSE APTS	PBRA	01081041100	4.00%	5.56%	1.00%	10.24%	32.00%	31.77%	63.00%	50.76%	99
GRACE RIDGE	LIHTC	01081041100		5.56%		10.24%		31.77%		50.76%	56



Esri, HERE, Garmin, USGS, E



Map Variations ▾ Map Themes ▾



Map Info Legend **TOC**

- ☒ Other Multifamily
- ☒ Project-Based Section 8
- ☒ Low Income Housing Tax Credit
- ☒ Demographics 2010
- ☒ White, Non-Hispanic
- ☒ Black, Non-Hispanic
- ☒ Native American, Non-Hispanic
- ☒ Asian/Pacific Islander, Non-Hispanic
- ☒ Hispanic
- ☒ Other, Non-Hispanic
- ☒ Multi-racial, Non-Hispanic
- Dot Value: 75 ▾
- Dot Size: 4 ▾
- ☐ UGLG
- ☒ Labels
- ☒ TRACT
- ☒ Labels
- ☒ R/ECAP
- ☒ Percent Voucher Units
- ☒ Percent Voucher Units: Data

Jurisdiction Region

Esri, HERE, Garmin, USGS, E



Part I Case Study: Burlington, Vermont.



Table 9: National Origin Demographics for Burlington and Burlington-South Burlington Region. Source: Decennial Census 2010; ACS.

TABLE 9: National Origin Demographics	Burlington, VT			Burlington-South Burlington Region		
#1 country of origin	Vietnam	477	1.16%	Canada	2,534	1.26%
#2 country of origin	Bosnia & Herzegovina	439	1.07%	Vietnam	893	0.44%
#3 country of origin	Other South Central Asia	390	0.95%	Bosnia & Herzegovina	810	0.40%
#4 country of origin	Nepal	307	0.75%	China excl. Hong Kong & Taiwan	614	0.30%
#5 country of origin	Canada	265	0.65%	Other South Central Asia	520	0.26%
#6 country of origin	Other Eastern Africa	199	0.49%	Other Eastern Africa	484	0.24%
#7 country of origin	China excl. Hong Kong & Taiwan	169	0.41%	Germany	481	0.24%
#8 country of origin	India	161	0.39%	India	424	0.21%
#9 country of origin	Germany	153	0.37%	Nepal	352	0.17%
#10 country of origin	Other Middle Africa	115	0.28%	Other UK	308	0.15%

Source: Assessment of Fair Housing, City of Burlington, Vermont, December 2017 – December 2022



Map 9: Map showing the Jobs Proximity Index in the Burlington, VT area.



Source: Assessment of Fair Housing, City of Burlington, Vermont, December 2017 – December 2022



Table 13: Racial/Ethnic Dissimilarity Trends in Burlington, VT and the Burlington-South Burlington Region.
Source: and Brown Longitudinal Survey using Decennial Census data for years 1990, 2000 and 2010.

Table 13: Racial/Ethnic Dissimilarity Trends						
	Burlington			Burlington-South Burlington Region		
	1990	2000	2010	1990	2000	2010
Non-White/White	12.37	17.17	18.85	21.69	22.48	24.30
Black/White	9.48	21.38	27.46	31.96	33.01	36.14
Hispanic/White	17.72	11.45	11.23	23.39	18.14	18.70
Asian or Pacific Islander/White	15.87	19.16	20.74	33.94	37.17	36.34

Source: Assessment of Fair Housing, City of Burlington, Vermont, December 2017 – December 2022



Figure 15: Racial/Ethnic Dissimilarity Trends Over Time in Burlington, VT. Source: Decennial Census for years 1990, 2000 and 2010.

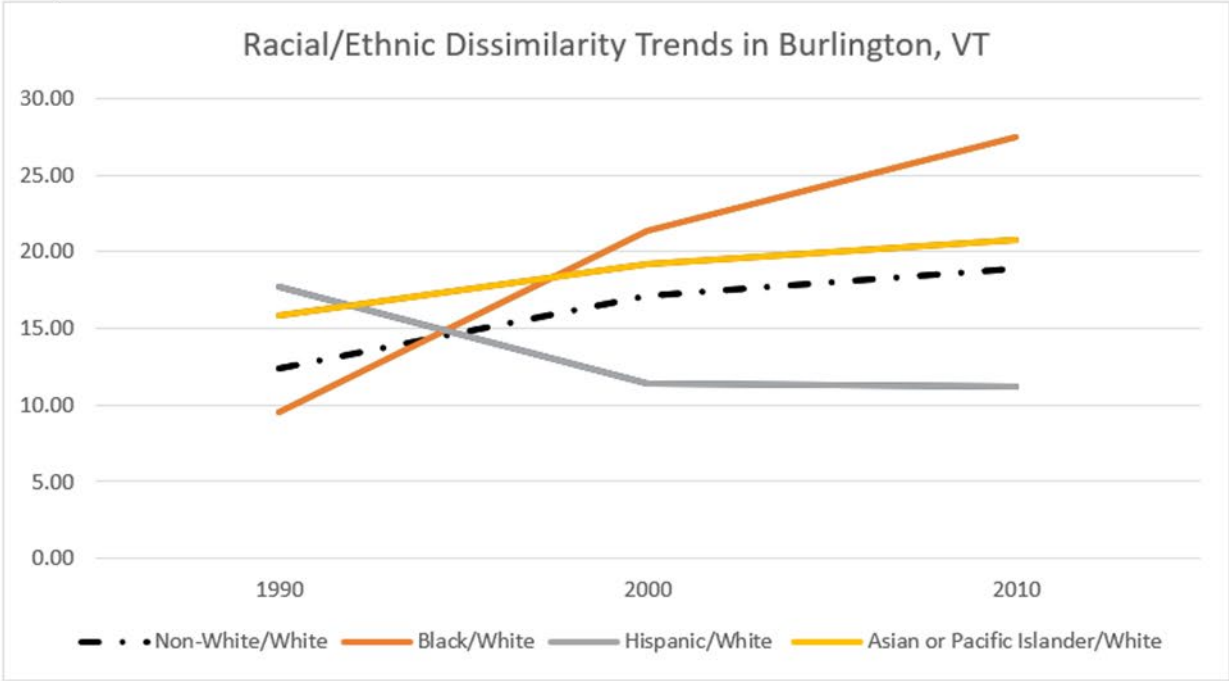
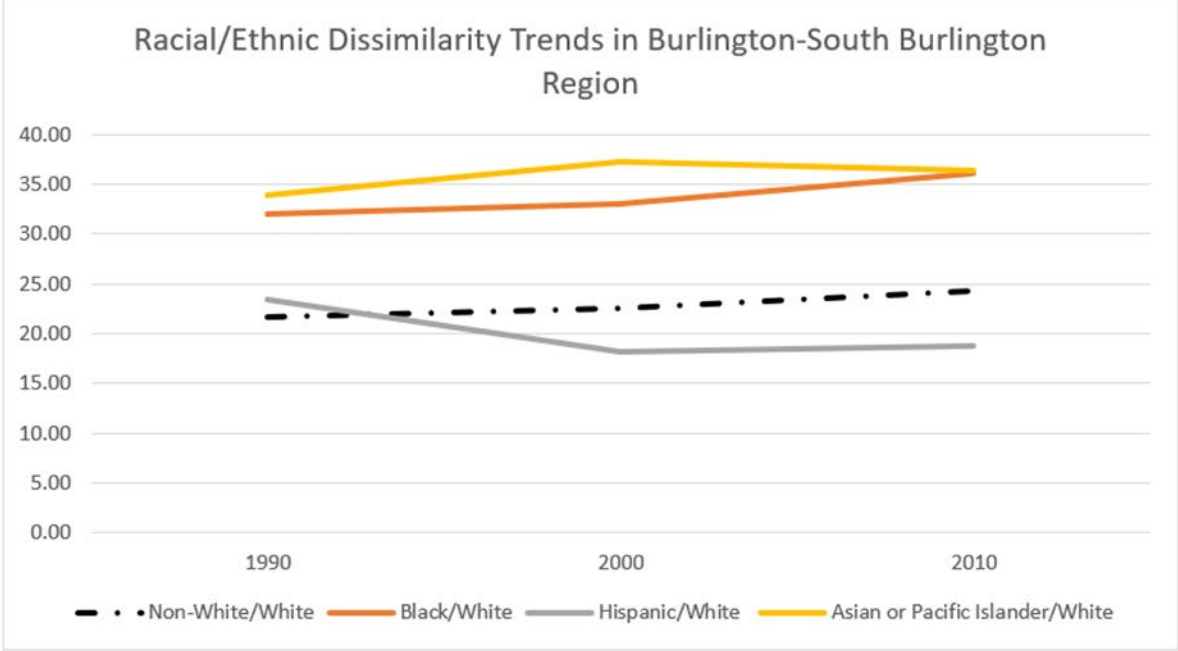


Figure 16: Racial/Ethnic Dissimilarity Trends in the Burlington-South Burlington Region. Source: Decennial Census for years 1990, 2000 and 2010.



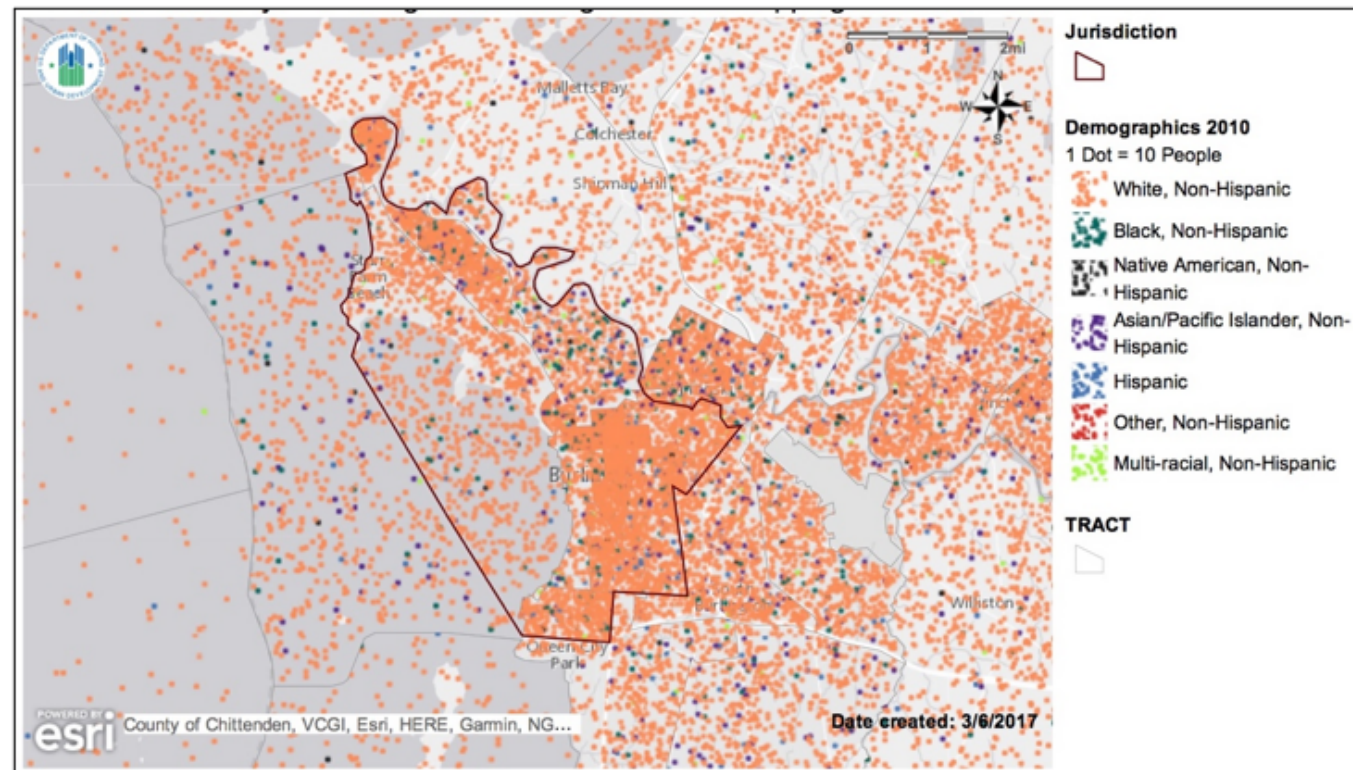
Source: Assessment of Fair Housing, City of Burlington, Vermont, December 2017 – December 2022



Identify areas with relatively high segregation and integration by race/ethnicity, national origin, or LEP group, and indicate the predominant groups living in each area.

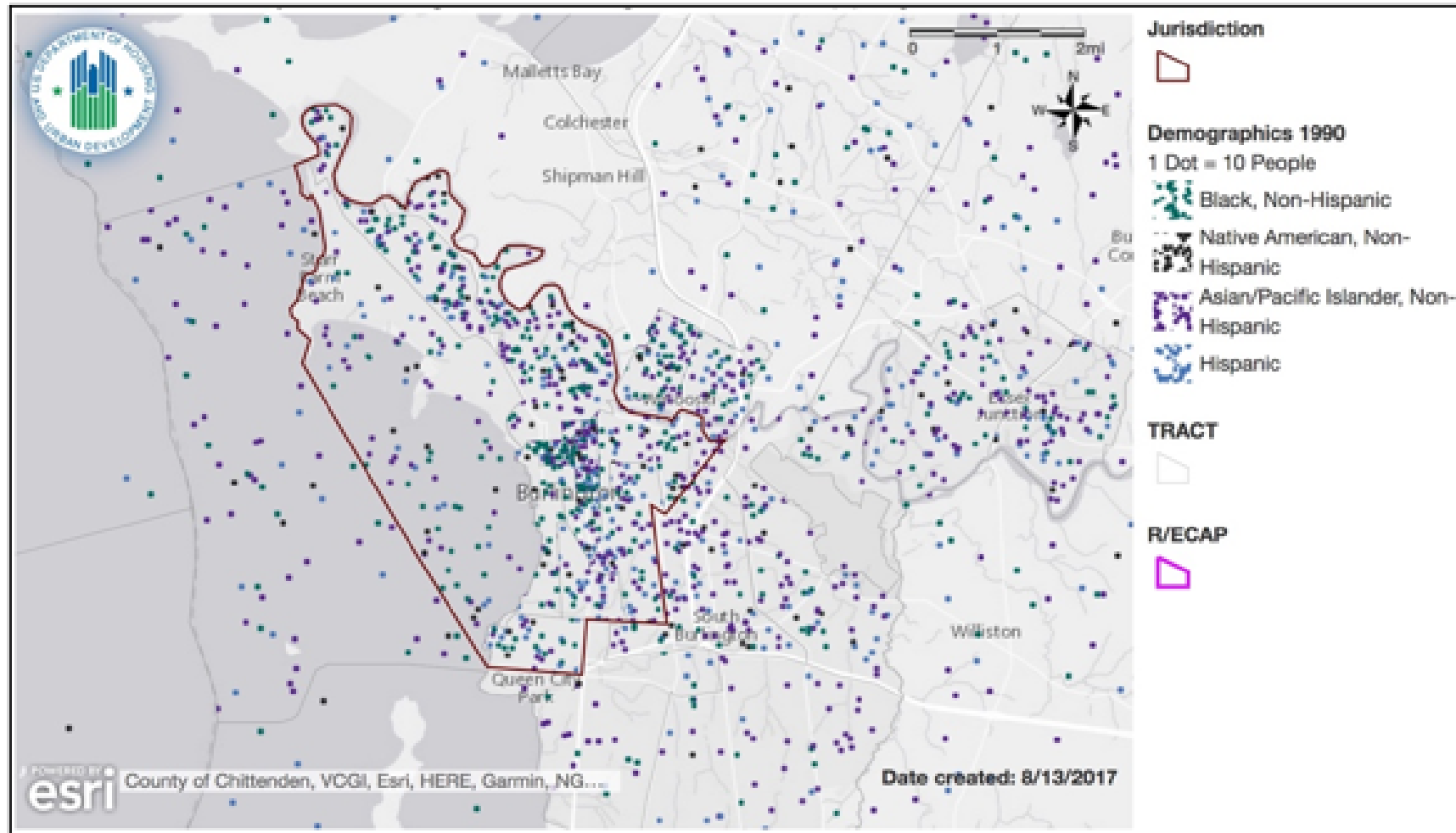
Using the AFH mapping tool, it is difficult to see the geographic distribution of segregation and integration within Burlington. This is due to the overall population being primarily white, to the point that white population density visually crowds out non-white population densities (see Map 1).

Map 1: Map of 2010 Racial/Ethnic Group population density in Burlington-South Burlington Region. Including the White, Non-Hispanic population density makes it difficult to see population densities of non-white populations. Source: Decennial Census.



Source: Assessment of Fair Housing, City of Burlington, Vermont, December 2017 – December 2022

Maps 2-4: Maps showing Racial/Ethnic Group Population Density from 1990 – 2010. White population density was removed to show detail of non-white groups. Source: Decennial Census.



Source: Assessment of Fair Housing, City of Burlington, Vermont, December 2017 – December 2022



Part II:

Using the AFFH-T Raw Data



OVERVIEW OF THE RAW DATA

What is it?

- Underlying dataset behind the mapping tool
- Additional variables available
- Formatted a set of very large tables covering nationwide geographies

Other considerations

- Allows for more flexible analysis
- Requires more effort and data analysis capacity to filter and manipulate
- Requires GIS capacity to visualize



RAW DATA RESOURCES

AFFH-T Data Documentation, which explains the data methodology in the AFFH-T.

[Data Documentation - AFFHT0001](#)

[Data Documentation - AFFHT0002](#)

[Data Documentation - AFFHT0003a](#)

[Data Documentation - AFFHT0004](#)

[Data Documentation - AFFHT0005](#)

[Data Documentation - AFFHT0006](#)

AFFH-T Known Issues, which is a document that describes issues known to persist in the AFFH-T.

[AFFH-T Known Issues - July 2017](#)

[AFFH-T Known Issues - September 2017](#)

[AFFH-T Known Issues - December 2017](#)

AFFH-T Raw Data are files that contain the raw data included in the AFFH-T.

[AFFHT0001 Raw Data](#)

[AFFHT0002 Raw Data](#)

[AFFHT0003 Raw Data](#)

[AFFHT0003a Raw Data](#)















[AFFHT0004 Raw Data](#)

[AFFHT0005 Raw Data](#)

[AFFHT0006 Raw Data](#)



RAW DATA FILE STRUCTURE

<input type="checkbox"/> Name	Date modified	Type	Size
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 AFFH_county_AFFHT0006_July2020	7/10/2020 11:36 AM	Microsoft Excel Comma Separated Values File	7,339 KB
 AFFH_entl_nonentl_AFFHT0006_July2020	7/10/2020 11:56 AM	Microsoft Excel Comma Separated Values File	330 KB
 AFFH_Housing_lihtc_AFFHT0006_July2020	6/29/2020 1:24 PM	Microsoft Excel Comma Separated Values File	25,759 KB
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 AFFH_Housing_tract_AFFHT0006_July2020	6/29/2020 1:26 PM	Microsoft Excel Comma Separated Values File	29,738 KB
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 AFFH_Public_Use_Data_Dictionaries_AFFHT0006_July2020	7/10/2020 12:44 PM	Microsoft Excel Worksheet	172 KB
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 AFFH_tract_AFFHT0006_July2020	7/10/2020 12:40 PM	Microsoft Excel Comma Separated Values File	115,352 KB



RAW DATA FILE STRUCTURE (cont'd)

	A	B	C	D	E	F	G	H
1	INDEX	ATTRIBUTE_NAME	ATTRIBUTE_DESCRIPTION	ATTRIBUTE_TYPE				
2	1	JURISUOGID	Jurisdiction ID (State FIPS Code)	VARCHAR				
3	2	JURISNAME	Jurisdiction name (State name)	VARCHAR				
4	3	GRANTEE_CATEGORY	1=CDBG; 2=CONSORTIA (HOME); 3=DIFFERENT_BOUNDARY (HOME); 4=PHA; 5=State	VARCHAR				
5	4	CATEGORY	Summary level of data (state)	VARCHAR				
6	5	WHITE	Number of whites	NUMBER				
7	6	BLACK	Number of blacks	NUMBER				
8	7	HISP	Number of Hispanics	NUMBER				
9	8	ASIAN_PI	Number of Asians or Pacific islanders	NUMBER				
10	9	NATIVE	Number of Native Americans	NUMBER				
11	10	OTHER	Number of people who are other race	NUMBER				
12	11	TWO_PLUS	Number of people who are of two or more races	NUMBER				
13	12	pct_white	Percent of population who are white	NUMBER				
14	13	pct_black	Percent of population who are black	NUMBER				
15	14	pct_hispanic	Percent of population who are Hispanic	NUMBER				
16	15	pct_asian_pi	Percent of population who are Asian or Pacific islander	NUMBER				
17	16	pct_native	Percent of population who are Native American	NUMBER				
18	17	pct_other	Percent of population who are other race	NUMBER				
19	18	pct_two_plus	Percent of population who are of two or more races	NUMBER				
20	19	lab_juris_top_lep_1	Description of top 1 language	VARCHAR				
21	20	lab_juris_top_lep_2	Description of top 2 language	VARCHAR				
22	21	lab_juris_top_lep_3	Description of top 3 language	VARCHAR				
23	22	lab_juris_top_lep_4	Description of top 4 language	VARCHAR				
24	23	lab_juris_top_lep_5	Description of top 5 language	VARCHAR				
25	24	lab_juris_top_lep_6	Description of top 6 language	VARCHAR				
26	25	lab_juris_top_lep_7	Description of top 7 language	VARCHAR				



RAW DATA FILE STRUCTURE EXAMPLE

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	JURISUOG	JURISNAM	GRANTEE	CATEGORY	WHITE	BLACK	HISP	ASIAN_PI	NATIVE	OTHER	TWO_PLU	pct_white	pct_black	pct_hispa	pct_asian	pct_native	pct_other	pct_two_g	lab_juris_	lab_juris_	lab_juris_	lab_ju
2	1001	Autauga C	8	State-Cou	42154	9595	1310	489	217	45	761	77.25	17.58	2.4	0.9	0.4	0.08	1.39	Spanish	Chinese	Vietname	West
3	1003	Baldwin C	8	State-Cou	152200	16966	7992	1419	1146	245	2297	83.5	9.31	4.38	0.78	0.63	0.13	1.26	Spanish	Other Ind	Chinese	Other
4	1005	Barbour C	8	State-Cou	12837	12820	1387	131	60	13	209	46.75	46.69	5.05	0.48	0.22	0.05	0.76	Spanish	Vietname	Korean	West
5	1007	Bibb Coun	8	State-Cou	17191	5024	406	29	64	20	181	75.02	21.92	1.77	0.13	0.28	0.09	0.79	Spanish	Other Ind	French	Other
6	1009	Blount Co	8	State-Cou	50952	724	4626	133	285	35	567	88.89	1.26	8.07	0.23	0.5	0.06	0.99	Spanish	Other & U	Slavic lang	Other
7	1011	Bullock Co	8	State-Cou	2392	7637	777	24	20	5	59	21.92	69.97	7.12	0.22	0.18	0.05	0.54	Spanish	French	Other Ind	NULL
8	1013	Butler Cou	8	State-Cou	11324	9047	191	181	59	3	142	54.06	43.19	0.91	0.86	0.28	0.01	0.68	Spanish	Korean	West Gerr	NULL
9	1015	Calhoun C	8	State-Cou	87285	24177	3893	924	480	109	1704	73.61	20.39	3.28	0.78	0.4	0.09	1.44	Spanish	Chinese	Korean	West
10	1017	Chambers	8	State-Cou	19893	13206	536	173	57	23	327	58.14	38.6	1.57	0.51	0.17	0.07	0.96	Korean	Other Asia	Spanish	West
11	1019	Cherokee	8	State-Cou	23929	1206	320	50	122	15	347	92.07	4.64	1.23	0.19	0.47	0.06	1.34	Spanish	NULL	NULL	NULL
12	1021	Chilton Co	8	State-Cou	35395	4171	3420	136	134	34	353	81.1	9.56	7.84	0.31	0.31	0.08	0.81	Spanish	Chinese	Tagalog	Other
13	1023	Choctaw C	8	State-Cou	7700	5990	73	12	18	10	56	55.56	43.22	0.53	0.09	0.13	0.07	0.4	Spanish	Other Ind	NULL	NULL
14	1025	Clarke Cou	8	State-Cou	13943	11280	271	78	96	9	156	53.97	43.67	1.05	0.3	0.37	0.03	0.6	Spanish	Chinese	Korean	West
15	1027	Clay Coun	8	State-Cou	11186	2048	399	23	55	5	216	80.29	14.7	2.86	0.17	0.39	0.04	1.55	Spanish	West Gerr	NULL	NULL
16	1029	Cleburne	8	State-Cou	13956	494	307	24	50	4	137	93.21	3.3	2.05	0.16	0.33	0.03	0.92	Spanish	NULL	NULL	NULL
17	1031	Coffee Co	8	State-Cou	36134	8257	3180	680	602	52	1043	72.34	16.53	6.37	1.36	1.21	0.1	2.09	Spanish	Korean	West Gerr	Chine
18	1033	Colbert Co	8	State-Cou	43334	8702	1093	238	262	35	764	79.62	15.99	2.01	0.44	0.48	0.06	1.4	Spanish	Vietname	Other Asia	Chine
19	1035	Conecuh C	8	State-Cou	6764	6122	161	17	44	6	114	51.13	46.28	1.22	0.13	0.33	0.05	0.86	Spanish	Other Asia	West Gerr	NULL
20	1037	Coosa Cou	8	State-Cou	7604	3556	230	14	40	7	88	65.9	30.82	1.99	0.12	0.35	0.06	0.76	Spanish	Vietname	NULL	NULL
21	1039	Covington	8	State-Cou	31751	4685	483	149	196	13	488	84.08	12.41	1.28	0.39	0.52	0.03	1.29	Spanish	Other Ind	Korean	Vietn
22	1041	Crenshaw	8	State-Cou	10020	3241	204	190	56	2	193	72.06	23.31	1.47	1.37	0.4	0.01	1.39	Spanish	Korean	French	NULL

AFFH_county_AFFHT0006_July2020



RAW DATA FILE STRUCTURE EXAMPLE (cont'd)

	A	B	C
1	Census Tract	Neighborhood Name	Percent in Census Tract
2		1 Apple Valley	100
3		2.01 Apple Valley	60
4		2.01 Orange Vista	40
5		2.02 Orange Vista	100
6		3 Pineapple Place	100
7		4 Pineapple Place	100
8		5 Pineapple Place	100
9		6.01 Orange Vista	30
10		6.01 Pineapple Place	70
11		6.02 Pineapple Place	100
12		6.03 Apple Valley	100
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

Neighborhood Crosswalk

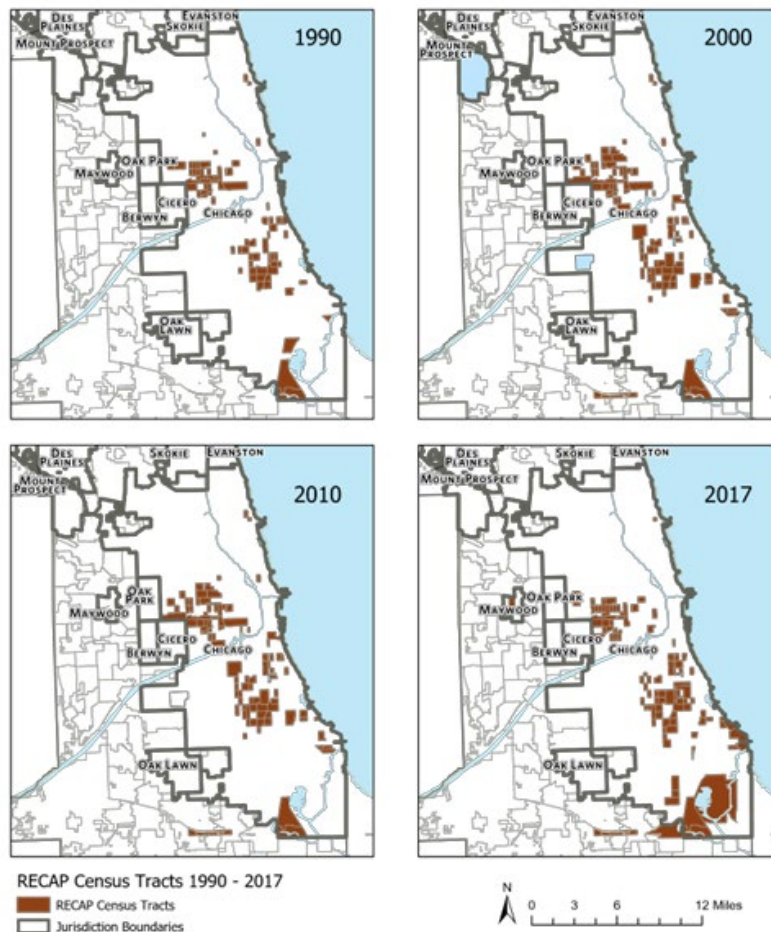


Part II Case Study: Chicago, IL

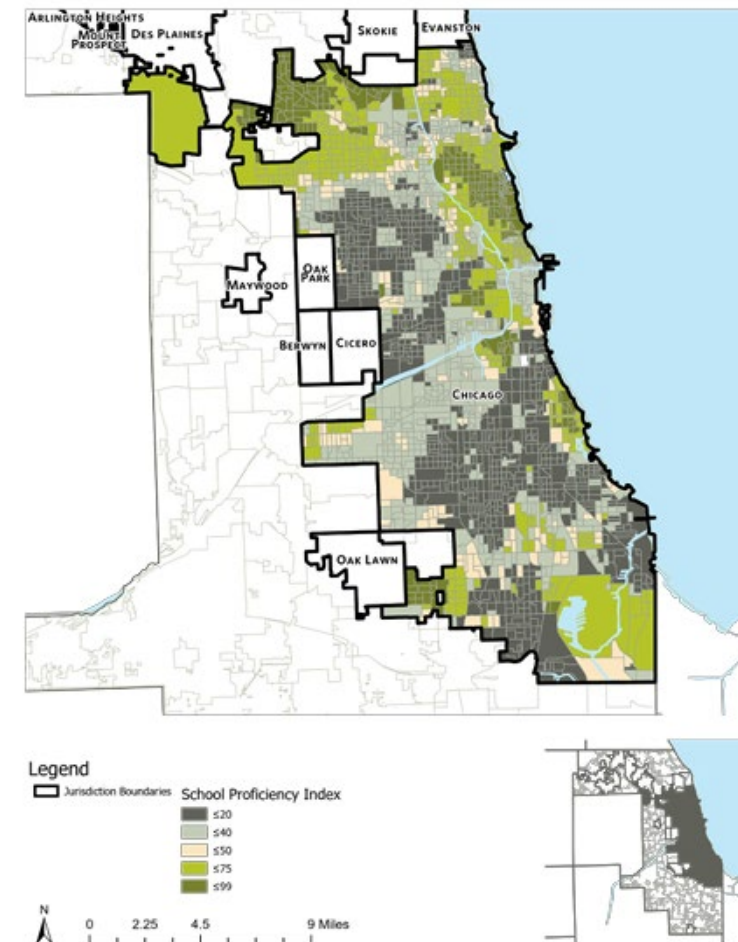


CHICAGO BLUEPRINT FOR FAIR HOUSING

R/ECAP's 1990, 2000, 2010 and 2017



School Proficiency Index



Source: Chicago Blueprint for Fair Housing, 2021



CHICAGO BLUEPRINT FOR FAIR HOUSING (cont'd)

Table 77. Foreclosure Filing Per 100 Residential Parcels

Chicago Community Area	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany Park	4.3	3.0	2.6	1.5	0.7	0.7	0.5	0.6	0.4
Archer Heights	4.5	3.4	2.9	1.6	1.2	1.1	0.7	0.8	0.8
Armour Square	0.7	0.4	0.8	0.5	0.2	0.1	0.2	0.2	0.1
Ashburn	5.0	4.1	4.8	3.1	2.1	1.7	1.6	1.9	1.6
Auburn Gresham	4.5	3.8	4.3	2.9	2.6	2.5	2.2	2.5	2.2
Austin	4.7	4.0	4.7	2.7	2.1	2.2	2.0	1.9	1.8
Avalon Park	3.8	4.1	4.1	2.5	2.2	2.4	1.8	2.7	2.3
Avondale	4.6	3.4	2.9	1.4	1.0	0.7	0.5	0.6	0.6
Belmont Cragin	6.9	5.1	4.2	2.4	1.7	1.2	1.1	1.1	0.8
Beverly	1.9	1.9	1.9	1.1	1.1	0.8	1.0	0.9	0.8
Bridgeport	1.9	1.4	1.3	0.7	0.5	0.5	0.5	0.3	0.3

Source: Chicago Blueprint for Fair Housing, 2021



CHICAGO BLUEPRINT FOR FAIR HOUSING IMAGES

National Origin

Figure 6. % Foreign Born

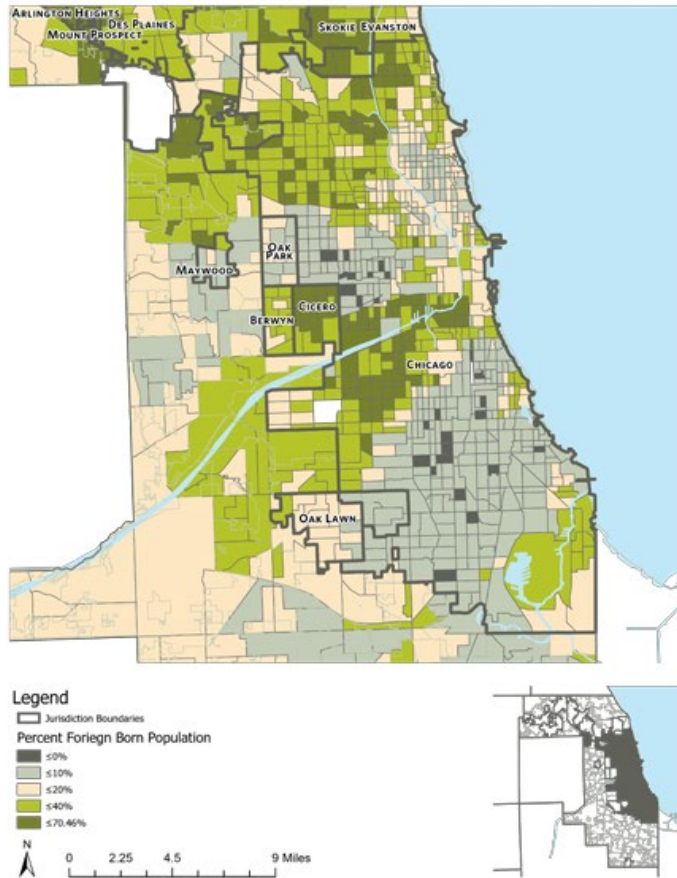


Figure 36. Labor Market Engagement Index

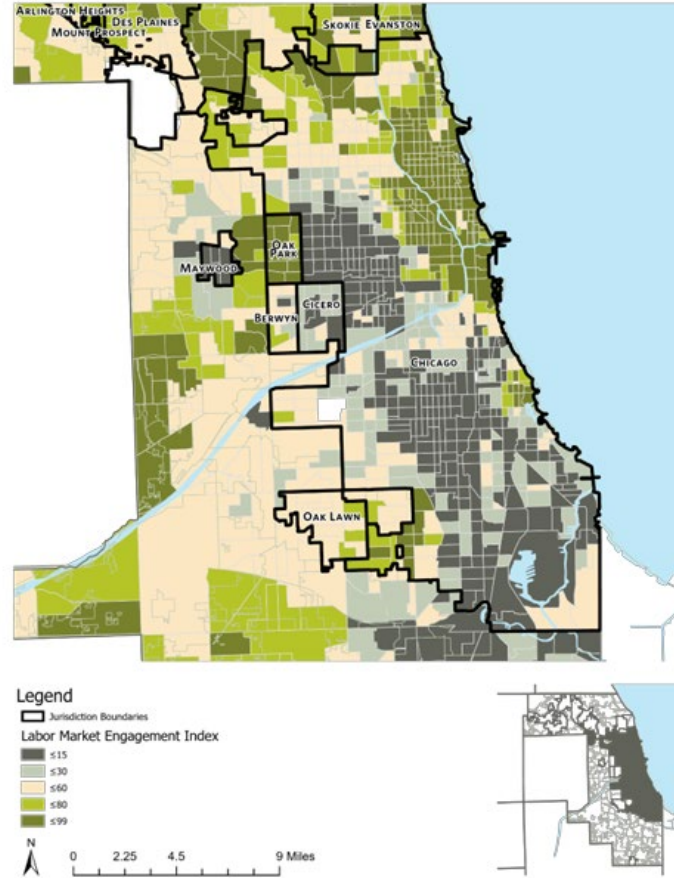
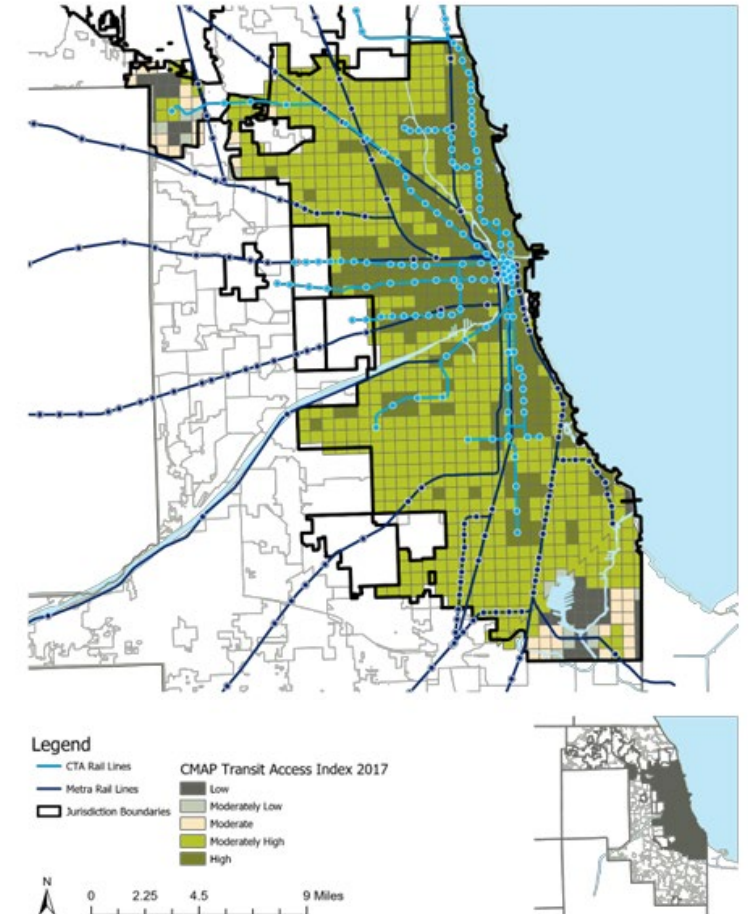


Figure 40. CMAP Transit Access Index



Source: Chicago Blueprint for Fair Housing, 2021



CHICAGO BLUEPRINT FOR FAIR HOUSING TABLE

Table 14. Population with Limited English Proficiency by Top Primary Languages Spoken, 2010

Rank	Language	Population	Percent of Total Population
Chicago			
1	Spanish	280,126	10.4%
2	Polish	30,483	1.1%
3	Chinese	24,087	0.9%
4	Tagalog	6,410	0.2%
5	Arabic	5,359	0.2%
6	O Slavic	5,105	0.2%
7	SerboCroatian	4,770	0.2%
8	Africanlang	4,621	0.2%
9	Korean	4,508	0.2%
10	O Indo	4,241	0.2%
Cook County			
1	Spanish	448,868	8.6%
2	Polish	75,065	1.4%
3	Chinese	31,858	0.6%
4	Korean	17,727	0.3%
5	Arabic	14,855	0.3%
6	Tagalog	14,601	0.3%
7	Russian	14,018	0.3%
8	O Slavic	10,867	0.2%
9	O Indo	10,727	0.2%
10	Gujarati	10,282	0.2%

Source: AFFH-T v4a

Source: Chicago Blueprint for Fair Housing, 2021



To learn more visit:

hud.gov/AFFH

