



Developing Tools for Data Users



Hosted by:

CIC and SDC Steering Committee Members

March 27, 2024



3/27/2024

Making the Detailed DHC-A Data Accessible



Office of Financial Management
Working together for the equitable future of every Washingtonian.

Goals

- Make the Detailed Demographic and Housing Characteristics File A (DDHC-A) data accessible
 - data.census.gov isn't always easy to use and accessing the DDHC-A is particularly challenging
- Opportunity to educate data users on how to use data

Presentation of data

Low tech excel spreadsheets

- Readme (reference information and links)
- DHC data
- Detailed DHC-A data counts and percentages
 - Use DHC race/ethnicity totals as denominator for within race/ethnicity percentages
 - Use regional totals as denominator for regional percentages
 - Present “alone” counts side by side with “alone and in combination” counts

Educate

Different 2020 Census datasets and what can be found where

- Redistricting data
- Demographic and Housing Characteristics file (DHC)
- Detailed Demographic and Housing Characteristics file (Detailed DHC-A)

Educate

Disclosure Avoidance

- DHC/Redistricting and Detailed DHC-A data are not consistent
- Nesting geographies within the Detailed DHC-A are not consistent
- Regional groups will not sum to total population
- Detailed groups will not sum to regional categories

Educate

Methodology details- in addition to disclosure avoidance

- A person selecting multiple categories within a regional group will not be listed under the detailed categories for "alone" count, but will be listed under the regional "alone" count. That person will be listed in all alone and in combination counts.
- A person can be listed under a regional category (such a European), without being counted under a detailed category under "alone" or "alone or in combination"
- For Hispanic detailed categories, the Census Bureau only publishes one detailed category per individual (no matter how many were listed on the census form).

Education

Data will be suppressed if meeting either of following criteria:

- Noise-infused count was negative
- The count for 'alone' is larger than its equivalent 'alone or in any combination' count

Education

Minimum Thresholds

- State- all categories with counts will be shown unless they meet criteria for suppression
- County
 - Detailed categories need to have a population count of 22 or more to be shown
 - Regional categories need to have a population count of 94 or more to be shown

Education

Margins of error

- State
 - Detailed categories have MOE +/- 3
 - Regional categories have MOE +/- 50
- County
 - Detailed categories have MOE +/- 11
 - Regional categories have MOE +/- 50

California also has similar spreadsheets on their website

Jonathan Buttle has python code to create excel spreadsheets.

<https://dof.ca.gov/forecasting/Demographics/2020-census-data/#DDHAProfile>


Contact: Jonathan.Buttle@dof.ca.gov

Questions?

Contact info
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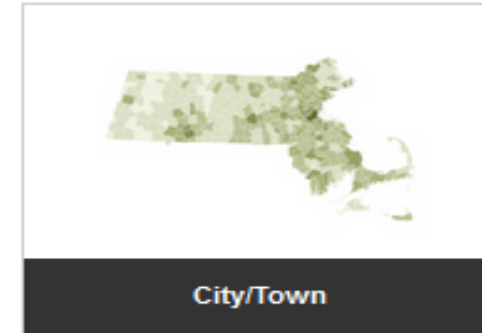
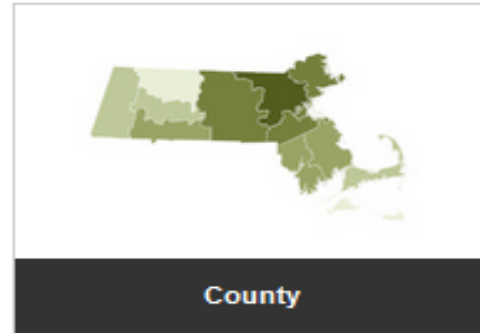
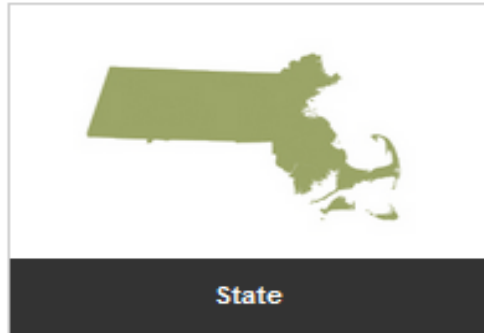
UMASS DONAHUE INSTITUTE
Population Estimates Program
Susan Strate, Sr. Program Manager
Denis McAuliffe, Research Analyst
SDC/CIC Presentation: *Data*
Visualization
MARCH 27, 2024

UMass Donahue Institute Population Estimates Program

.... ensures that the population estimates and counts produced by the U.S. Census Bureau for Massachusetts are as accurate and up-to-date as possible.

- Decennial Census support and preparation
- State liaison and data inputs to the Population Division of the U.S. Census Bureau
- Population Estimates and Projections
- Census data evaluation, summary, and dissemination

Census Estimates for Massachusetts Geographies



Population Estimates by Massachusetts Geography

Each year, the U.S. Census Bureau produces population estimates at the state, county, and city/town level. These population estimates are used for federal funding allocations, as controls for major surveys, for community development, and as denominators for calculating statistical rates, among other uses. More information about the methodology used by the Census Bureau to produce these estimates can be found at the [Census website](#).

With each Census release, PEP produces a summary report on the estimates for Massachusetts. These reports extract the data for Massachusetts from the Census release and provide context about population trends for researchers and planners. The most recent PEP reports on population estimates for Massachusetts, its counties, and its cities/towns may be viewed by clicking the desired level of geography above or in the menu to the left.

For additional U.S. Census data for Massachusetts, see the [Massachusetts State Data Center](#).

FOR MORE INFORMATION

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City/Town Summaries

Census 2020 Data for Massachusetts

The U.S. Census Bureau released the first detailed dataset from the Census 2020 count on August 12, 2021. This "Decennial Census P.L. 94-171 Redistricting" dataset includes population counts by race and ethnicity in two age groups including under-18 and 18-plus as well as housing unit counts by occupancy status. The full PL-94 dataset encompasses Census count information for geographic levels including state, county, tract, block-group, block, and congressional-district. On this webpage UMDI has developed interactive data dashboards to display the Census 2020 population totals, population change, population by race and ethnicity, and housing unit information at the city and town level. Scroll below the dashboards to find a link to individualized municipal summaries and downloadable tables. For additional information on the Census Bureau's Census 2020 data releases, visit the Bureau's Census 2020 webpage.



Municipal Summaries

Decennial Census P.L. 94-171 Redistricting Data

The 3-page summary report for each city and town includes information on population totals, population change, population by race and ethnicity, and housing unit information in historical and state context.

SELECT YOUR CITY OR TOWN HERE

Massachusetts Municipal Summaries

Decennial Census P.L. 94-171 Redistricting Data

Page 1: This resource summarizes the latest 2020 Census redistricting data for all 351 cities and towns in Massachusetts. The data on this page includes historical context for population and housing counts. To begin, select a municipality using the drop-down menu to the right.

UMassAmherst

Donahue Institute
Economic and
Public Policy Research

Select Municipality

Boston

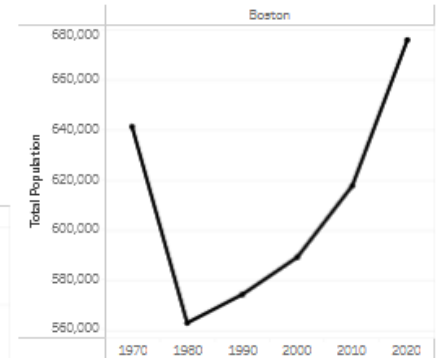
Boston, MA

Population of 675,647

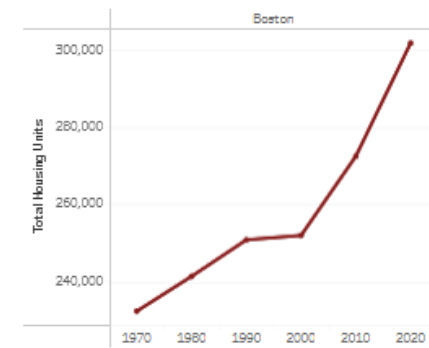
1st out of 351 municipalities

573,836 residents over 18 years old, or 84.9% of the total population.

Total Population in Boston, 1970-2020



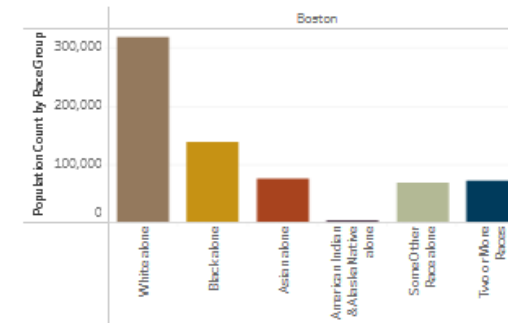
Total Housing Units in Boston, 1970-2020



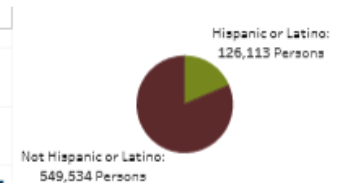
301,702 total housing units
1st out of 351 municipalities

279,495 occupied housing units
92.6% occupancy rate

Population by Race Group in Boston, 2020



Population by Ethnicity in Boston, 2020



Go to Page 2: Comparisons

View on Tableau Public

Share

Interactive Maps

Population Change, 2010 - 2020
Overall Population, 1970 - 2020



Ethnicity and Racial Population Shares, 2010 - 2020



Housing Units, Occupancy, and Vacancy, 1970-2020



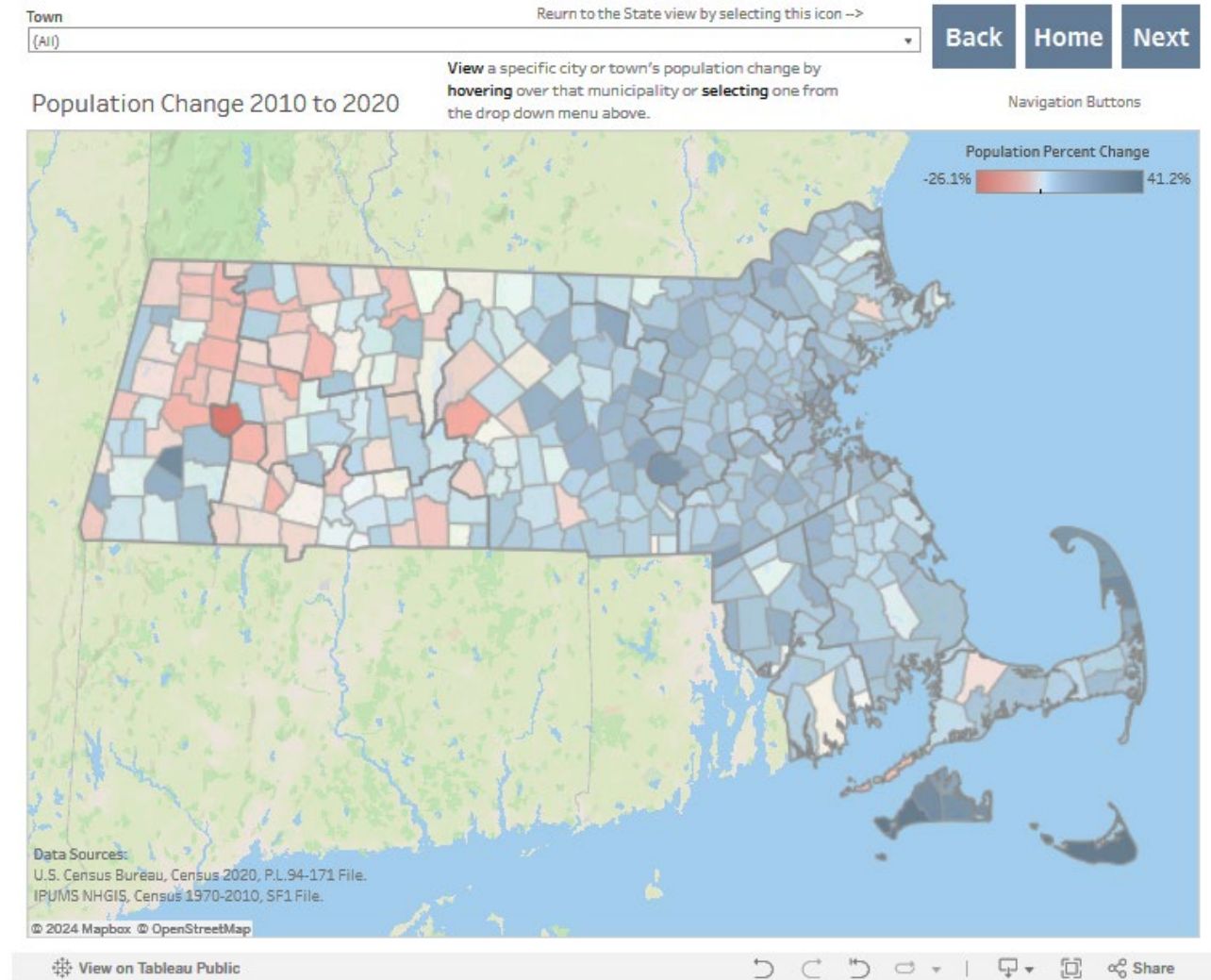
City and Town Sortable Rankings



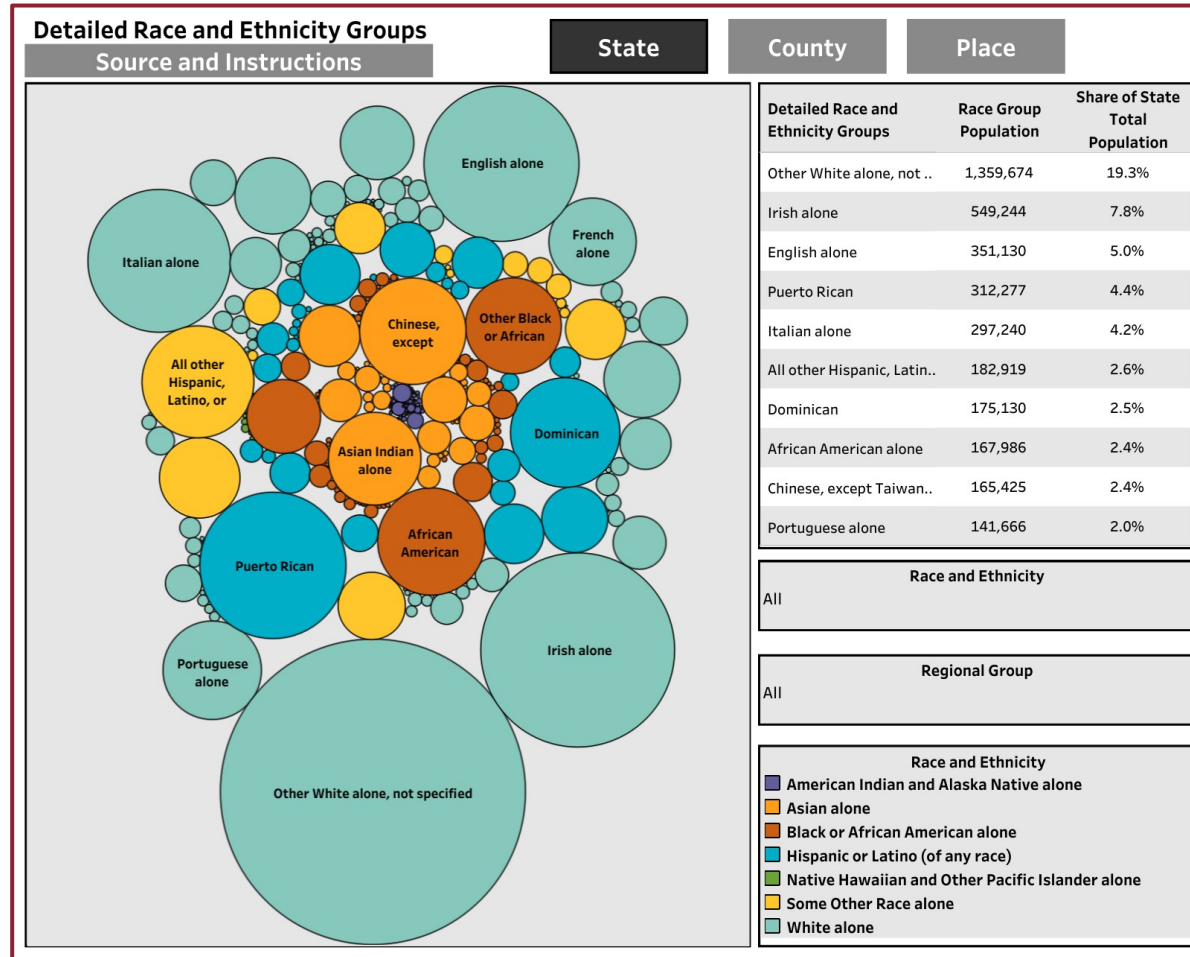
 View on Tableau Public



Interactive Maps



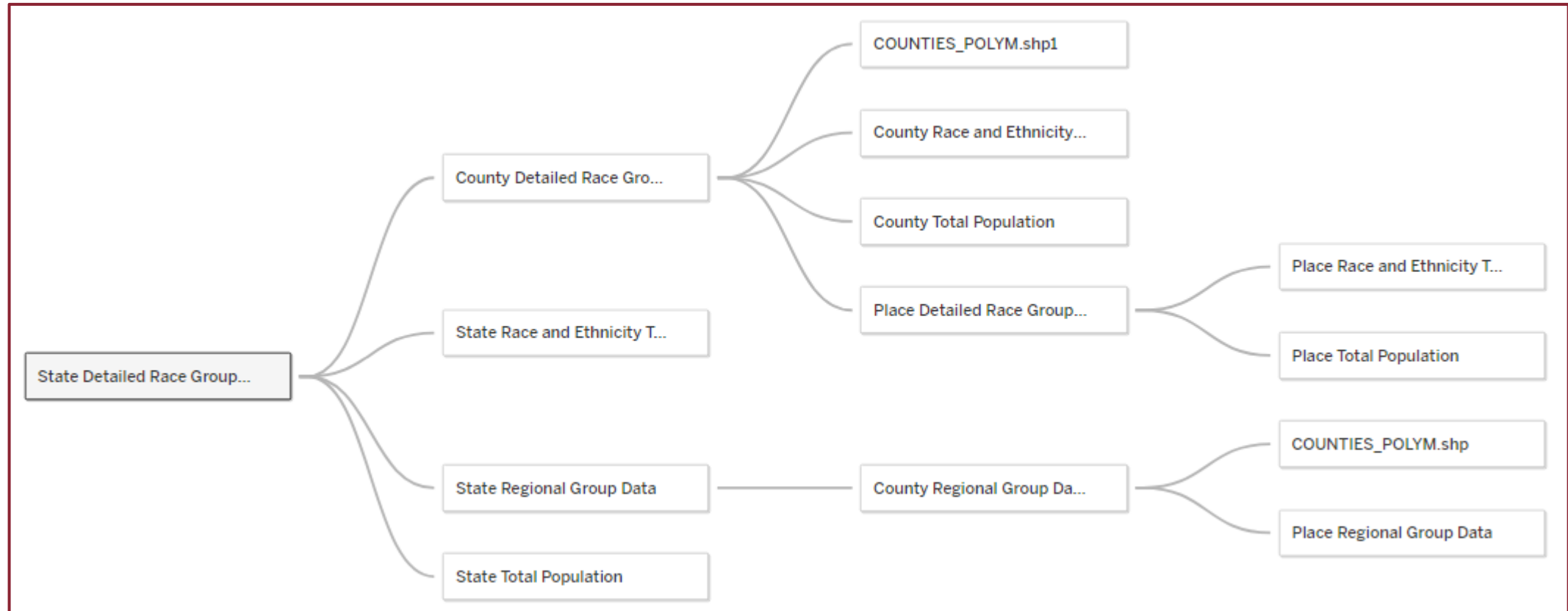
Detailed DHC-A Dashboard



Feeder Excel File

	A	B	C	D	E
1	Place	State	Population	Race and Ethnicity Code	Detailed Race and Ethnicity Groups
2	Abington CDP	Massachusetts	31	1003	Albanian alone
3	Abington CDP	Massachusetts	26	1023	Dutch alone
4	Abington CDP	Massachusetts	748	1024	English alone
5	Abington CDP	Massachusetts	24	1027	Finnish alone
6	Abington CDP	Massachusetts	112	1028	French alone
7	Abington CDP	Massachusetts	176	1031	German alone
8	Abington CDP	Massachusetts	67	1032	Greek alone
9	Abington CDP	Massachusetts	3025	1035	Irish alone
10	Abington CDP	Massachusetts	890	1036	Italian alone
11	Abington CDP	Massachusetts	27	1041	Lithuanian alone
12	Abington CDP	Massachusetts	182	1051	Polish alone
13	Abington CDP	Massachusetts	155	1052	Portuguese alone
14	Abington CDP	Massachusetts	25	1055	Russian alone
15	Abington CDP	Massachusetts	134	1058	Scottish alone
16	Abington CDP	Massachusetts	50	1063	Swedish alone
17	Abington CDP	Massachusetts	45	1086	Lebanese alone
18	Abington CDP	Massachusetts	29	1104	Canadian alone
19	Abington CDP	Massachusetts	76	1105	French Canadian alone
20	Abington CDP	Massachusetts	3615	1111	Other White alone, not specified
21	Acushnet Center CDP	Massachusetts	273	1024	English alone
22	Acushnet Center CDP	Massachusetts	236	1028	French alone
23	Acushnet Center CDP	Massachusetts	101	1035	Irish alone
24	Acushnet Center CDP	Massachusetts	23	1036	Italian alone
25	Acushnet Center CDP	Massachusetts	44	1051	Polish alone
26	Acushnet Center CDP	Massachusetts	612	1052	Portuguese alone

Tableau Matching Schema



Census Technical Documentation

	A	B	C
37	Iteration Number	Race Group	Race Codes
2778		Asian alone	4000:4999
2779	3764	East Asian alone*	4010:4099
2780	3765	Chinese, except Taiwanese alone	4020:4039
2781	3766	Hmong alone	4080:4089
2782	3767	Japanese alone	4040:4049
2783	3768	Korean alone	4050:4059
2784	3769	Mongolian alone	4060:4069
2785	3770	Taiwanese alone	4070:4079
2786	3771	Other East Asian alone	4010:4019, 4090:4099
2787	3772	Central Asian alone*	4100:4199
2788	3773	Afghan alone	4160:4169
2789	3774	Kazakh alone	4110:4119
2790	3775	Kyrgyz alone	4120:4129
2791	3776	Tajik alone	4130:4139
2792	3777	Turkmen alone	4140:4149
2793	3778	Uzbek alone	4150:4159
2794	3779	Other Central Asian alone	4100:4109, 4170:4199
2795	3781	South Asian alone*	4200:4399
2796	3782	Asian Indian alone	4220:4239
2797	3783	Bangladeshi alone	4240:4259
2798	3784	Bhutanese alone	4260:4269
2799	3785	Maldivian alone	4270:4279
2800	3786	Nepalese alone	4280:4289
2801	3787	Pakistani alone	4290:4304
2802	3788	Sikh alone	4305:4309

Technical Documentation and Other Guidance



[View Technical Documentation](#)

Information on data collection, confidentiality protection, nonsampling error, subject definitions, and guidance on using the data.



[2020 Census Hispanic Origin and Race Iterations List](#)

Complete list of detailed and regional groups available in the Detailed DHC-A.



[2020 Census Hispanic Origin and Race Code List](#)

Outlines how the Census Bureau coded responses to the Hispanic origin question and the race question.



[Detailed Race and Ethnicity Crosswalk: 2010 to 2020](#)

Outlines which codes were used to tabulate each group in 2010 and 2020.



[View Additional Data Guidance](#)

Information about how disclosure avoidance is applied to 2020 Census data products.

3014

Note: Groups denoted with a * are classified as regional groups for the purpose of margins of errors and thresholds.

Census Data.gov download

The screenshot displays the United States Census Bureau website interface. At the top left is the logo for the United States Census Bureau. A search bar is located at the top center. Below the search bar are navigation tabs: All, Tables (selected), Maps, Profiles, Pages, Apps, Help, FAQ, and Feedback. On the left side, there are 3 filters applied: 'DEC Detailed Demographic and ...', 'All Places within Massachusetts', and 'All available detailed Asian alon...'. A 'Clear all filters' button is also present. The main content area shows 4 results for 'TOTAL POPULATION'. The first result is selected and highlighted in blue. To the right of the results, a table is displayed for 'Abington CDP, Massachusetts'. The table has a dropdown menu open, showing options like Notes, Geos (1), Topics (1), Codes, Year, Hide, Transpose, Restore, Excel, CSV, and ZIP. The table content includes a 'Label' column with 'Total' and a value of '116'.

Label	Abington CDP, Massachusetts
Total	116

Raw and Processed Data Files

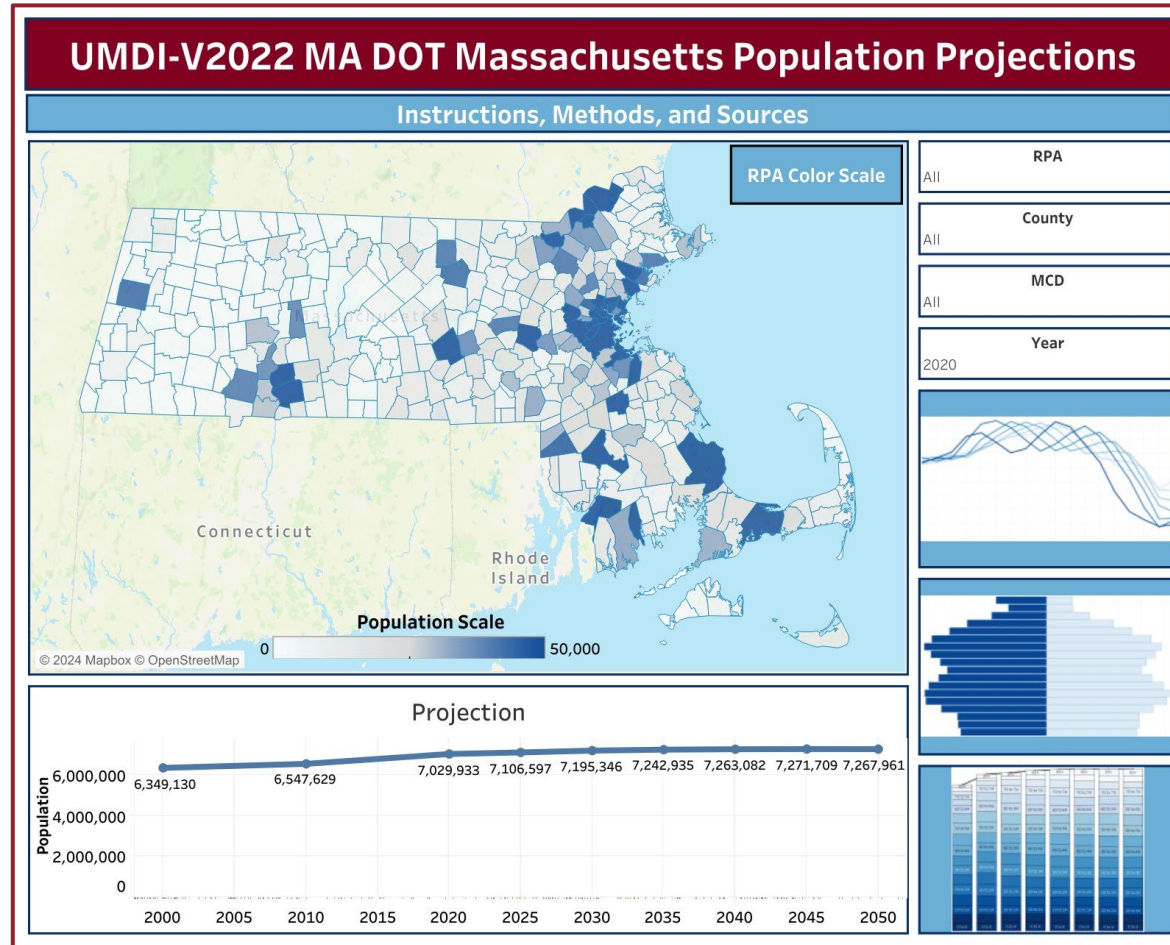
	A	B	C	D	E
1	NAME	T01001_001N	POPGROUP	POPGROUP_LABEL	
2	Geographic Area Name	!!Total	Race/Ethnic Group	Population Groups	Regional Group
3	Abington CDP, Massachusetts	116	3764	East Asian alone	*
4	Abington CDP, Massachusetts	92	3765	Chinese, except Taiwanese alone	
5	Abington CDP, Massachusetts	22	3768	Korean alone	
6	Abington CDP, Massachusetts	X	3781	South Asian alone	*
7	Abington CDP, Massachusetts	101	3782	Asian Indian alone	
8	Abington CDP, Massachusetts	140	3793	Southeast Asian alone	*
9	Abington CDP, Massachusetts	27	3796	Cambodian alone	
10	Abington CDP, Massachusetts	32	3797	Filipino alone	
11	Abington CDP, Massachusetts	101	3804	Vietnamese alone	
12	Agawam Town city, Massachusetts	244	3764	East Asian alone	*
13	Agawam Town city, Massachusetts	108	3765	Chinese, except Taiwanese alone	
14	Agawam Town city, Massachusetts	89	3768	Korean alone	
15	Agawam Town city, Massachusetts	302	3781	South Asian alone	*
16	Agawam Town city, Massachusetts	195	3782	Asian Indian alone	
17	Agawam Town city, Massachusetts	90	3787	Pakistani alone	
18	Agawam Town city, Massachusetts	168	3793	Southeast Asian alone	*
19	Agawam Town city, Massachusetts	56	3797	Filipino alone	
20	Agawam Town city, Massachusetts	78	3804	Vietnamese alone	
21	Agawam Town city, Massachusetts	100	3807	Other Asian alone	*
22	Agawam Town city, Massachusetts	43	3819	Other Asian alone, not specified	
23	Amesbury Town city, Massachusetts	22	3765	Chinese, except Taiwanese alone	
24	Amesbury Town city, Massachusetts	51	3782	Asian Indian alone	
25	Amherst Town city, Massachusetts	2232	3764	East Asian alone	*
26	Amherst Town city, Massachusetts	1669	3765	Chinese, except Taiwanese alone	
27	Amherst Town city, Massachusetts	111	3767	Japanese alone	
28	Amherst Town city, Massachusetts	397	3768	Korean alone	
29	Amherst Town city, Massachusetts	94	3770	Taiwanese alone	
30	Amherst Town city, Massachusetts	23	3773	Afghan alone	
31	Amherst Town city, Massachusetts	1186	3781	South Asian alone	*
32	Amherst Town city, Massachusetts	960	3782	Asian Indian alone	

	A	B	C	D	E	F
1	Geographic Area Name	!!Total	Race and Ethnicity Code	Detailed Race and Ethnicity Groups	Race and Ethnicity	Regional Group
5296	Abington CDP, Massachusetts	92	3765	Chinese, except Taiwanese	Asian alone	East Asian alone
5297	Abington CDP, Massachusetts	22	3768	Korean alone	Asian alone	East Asian alone
5298	Abington CDP, Massachusetts	101	3782	Asian Indian alone	Asian alone	South Asian alone
5299	Abington CDP, Massachusetts	27	3796	Cambodian alone	Asian alone	Southeast Asian alone
5300	Abington CDP, Massachusetts	32	3797	Filipino alone	Asian alone	Southeast Asian alone
5301	Abington CDP, Massachusetts	101	3804	Vietnamese alone	Asian alone	Southeast Asian alone
5302	Agawam Town city, Massachusetts	108	3765	Chinese, except Taiwanese	Asian alone	East Asian alone
5303	Agawam Town city, Massachusetts	89	3768	Korean alone	Asian alone	East Asian alone
5304	Agawam Town city, Massachusetts	195	3782	Asian Indian alone	Asian alone	South Asian alone
5305	Agawam Town city, Massachusetts	90	3787	Pakistani alone	Asian alone	South Asian alone
5306	Agawam Town city, Massachusetts	56	3797	Filipino alone	Asian alone	Southeast Asian alone
5307	Agawam Town city, Massachusetts	78	3804	Vietnamese alone	Asian alone	Southeast Asian alone
5308	Agawam Town city, Massachusetts	43	3819	Other Asian alone, not spec	Asian alone	Other Asian alone
5309	Amesbury Town city, Massachusetts	22	3765	Chinese, except Taiwanese	Asian alone	East Asian alone
5310	Amesbury Town city, Massachusetts	51	3782	Asian Indian alone	Asian alone	South Asian alone
5311	Amherst Town city, Massachusetts	1669	3765	Chinese, except Taiwanese	Asian alone	East Asian alone
5312	Amherst Town city, Massachusetts	111	3767	Japanese alone	Asian alone	East Asian alone
5313	Amherst Town city, Massachusetts	397	3768	Korean alone	Asian alone	East Asian alone
5314	Amherst Town city, Massachusetts	94	3770	Taiwanese alone	Asian alone	East Asian alone
5315	Amherst Town city, Massachusetts	23	3773	Afghan alone	Asian alone	Central Asian alone
5316	Amherst Town city, Massachusetts	960	3782	Asian Indian alone	Asian alone	South Asian alone
5317	Amherst Town city, Massachusetts		3783	Bangladeshi alone	Asian alone	South Asian alone
5318	Amherst Town city, Massachusetts	80	3786	Nepalese alone	Asian alone	South Asian alone
5319	Amherst Town city, Massachusetts	76	3787	Pakistani alone	Asian alone	South Asian alone
5320	Amherst Town city, Massachusetts	24	3790	Sri Lankan alone	Asian alone	South Asian alone
5321	Amherst Town city, Massachusetts		3796	Cambodian alone	Asian alone	Southeast Asian alone
5322	Amherst Town city, Massachusetts	64	3797	Filipino alone	Asian alone	Southeast Asian alone
5323	Amherst Town city, Massachusetts	32	3803	Thai alone	Asian alone	Southeast Asian alone
5324	Amherst Town city, Massachusetts	173	3804	Vietnamese alone	Asian alone	Southeast Asian alone
5325	Amherst Town city, Massachusetts	3062	3819	Other Asian alone, not spec	Asian alone	Other Asian alone

Detailed, Regional, and Major Race or Origin Group Crosswalk

	A	B	C	
1	Iteration Number	Race Group	Regional Group	Detailed Race or Origin Group
2	4015	Hispanic or Latino (of any race)		Mexican
3	4017	Hispanic or Latino (of any race)	Central American	Costa Rican
4	4018	Hispanic or Latino (of any race)	Central American	Guatemalan
5	4019	Hispanic or Latino (of any race)	Central American	Honduran
6	4020	Hispanic or Latino (of any race)	Central American	Nicaraguan
7	4021	Hispanic or Latino (of any race)	Central American	Panamanian
8	4022	Hispanic or Latino (of any race)	Central American	Salvadoran
9	4023	Hispanic or Latino (of any race)	Central American	Other Central American
10	4025	Hispanic or Latino (of any race)	South American	Argentinean
11	4026	Hispanic or Latino (of any race)	South American	Bolivian
12	4027	Hispanic or Latino (of any race)	South American	Chilean
13	4028	Hispanic or Latino (of any race)	South American	Colombian
14	4029	Hispanic or Latino (of any race)	South American	Ecuadorian
15	4030	Hispanic or Latino (of any race)	South American	Paraguayan
16	4031	Hispanic or Latino (of any race)	South American	Peruvian
17	4032	Hispanic or Latino (of any race)	South American	Uruguayan
18	4033	Hispanic or Latino (of any race)	South American	Venezuelan
19	4034	Hispanic or Latino (of any race)	South American	Other South American
20	4036	Hispanic or Latino (of any race)	Caribbean Hispanic	Cuban
21	4037	Hispanic or Latino (of any race)	Caribbean Hispanic	Dominican
22	4038	Hispanic or Latino (of any race)	Caribbean Hispanic	Puerto Rican
23	4039	Hispanic or Latino (of any race)	Caribbean Hispanic	Other Caribbean Hispanic
24	4041	Hispanic or Latino (of any race)	Other Hispanic, Latino, or Spanish	Spaniard
25	4042	Hispanic or Latino (of any race)	Other Hispanic, Latino, or Spanish	Spanish
26	4043	Hispanic or Latino (of any race)	Other Hispanic, Latino, or Spanish	Spanish American

Population Projections Dashboard



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University of
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Amherst

Louisiana State University at Shreveport Center for Business and Economic Research



Why LSUS Academics Admissions Costs and Aid Student Life Life After LSUS LSUS News

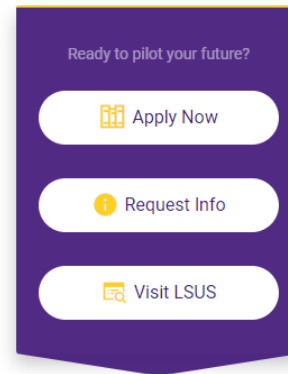
Home > Community > Center for Business & Econ. Research

Center for Business and Economic Research

The Center for Business and Economic Research at Louisiana State University Shreveport, founded in 1982 as the Center for Business Research, was originally organized to develop a base of socioeconomic data about the Shreveport area, to analyze area economic trends and factors, and to disseminate the results to the community. Today, the Center for Business and Economic Research continues with this core mission by:

- Serving as the central source for economic research for new business recruitment and existing business expansion for the Northwest Louisiana region.
- Maintaining a database of local and regional economic indicators, updated monthly.
- Analyzing area economic trends and publishing reports for use by area businesses and economic development organizations.
- Conducting an annual Economic Outlook Conference.
- Conducting applied business research projects and economic impact studies on contract basis.
- Providing Census data maps and marketing territory maps.
- Partnering with the U.S. Census Bureau to serve as a Census Information Center helping to disseminate Census data to the community.

The Center for Business and Economic Research has been designated as a Census Information Center



Center for Business and
Economic Research

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Links to Website and Tools

[Center for Business and Economic Research \(lsus.edu\)](http://lsus.edu)

[Shreveport Neighborhoods | Tableau Public](#)

Contact: Doug White, Director
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Thank you for joining us!

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