



The Research Bureau

Worcester **ALMANAC**

2022



The Worcester Regional Research Bureau is pleased to present the eighth annual *Worcester Almanac*—our compendium of information of all things Greater Worcester. A local, not-for-profit organization, The Research Bureau’s mission is to serve the public interest of Greater Worcester by conducting independent, non-partisan research and analysis of public policy issues to promote informed public debate and decision-making. We undertake the *Worcester Almanac* each year to provide government officials, residents, businesses, and institutions an easy-to-use source for current and trend data on a range of civic concerns.

We would like to thank all those who provide data for this project. If there is any fact or figure about Greater Worcester that you would like to see included in the *Worcester Almanac*, please contact us at wrrb@wrrb.org. To learn more about our activities or to read our reports, you can visit our website at www.wrrb.org, follow us on Twitter (@WRRBureau), or like us on Facebook (The Research Bureau).

If you believe in the importance of informed local governance and would like to sponsor our efforts, please send a contribution to:

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The Research Bureau

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Worcester Almanac

The Worcester Regional Research Bureau offers its thanks to the generous sponsors of its work, including the *Worcester Almanac*. Now in its 8th edition, the *Worcester Almanac* has become a critical resource for municipalities, businesses, institutions of higher education, non-profit and civic organizations, and the general public. We could not continue our efforts without the civic-minded dedication of our many partners in Greater Worcester. Their continued support of The Research Bureau is a clear measure of the vitality and character of our community and its commitment to good governance.

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Worcester Regional Research Bureau

UNIBANK

We're stronger together.

150+2 years is certainly an unusual milestone to celebrate. UniBank formulated plans to celebrate our 150th anniversary in June of 2020, but the pandemic had other plans. As a result of the pandemic that gripped our lives beginning in March of 2020 and lasting until just recently, we put the celebratory balloons, streamers and festivities aside, and once again rolled up our sleeves to serve our community during these days of challenge and at times crisis. At UniBank, we embrace the concept of servant leadership, so during these past twenty-four months, we have served individuals and businesses in a most impactful way – assisting them, their families, and their employees navigate some of the most challenging days we have faced in generations. Yet, it is not the first storm we have helped our community weather. The Civil War was a recent memory to our founders, having ended just five years prior to our founding. We withstood the 1918 influenza epidemic, the Great Depression, both World Wars, the Cold War, and 9/11. Now, in what we hope to be the waning days of the pandemic, we begin our celebration of 150+2 years of servant leadership to our beloved community.

As many of you know, I grew up in Worcester and am forever grateful to the people and institutions that helped shape the person I am today. I love the fact that I am from Worcester (and that my great grandfather immigrated in the 1800s to the Blackstone Valley to work in the mills), "we come with a certain stance in life." There is a sense of what some would say is grit, determination, and hard work. My family taught me the importance of mutual obligation, formed in the idea that our personal work is not for our own self-aggrandizement, but we work (or serve) for the betterment of others. I understand that some people today, believe those are "old-fashioned" values, and even I recognize that there are fewer institutions that exist today, that manifest such ideals.

UniBank, at 152 years old, is one of those institutions that have remained focused on its mission. We are a non-stock mutual bank, thus profits earned, are not distributed to shareholders across the country. As a mutual bank, monies earned are directly reinvested into our community, whether it be helping homeless shelters, assisting organizations that serve senior citizens, funding non-profits that provide food for the needy, etc. The pandemic highlighted the importance that "local matters" - and we are proud to be from here.

Our values, ethics, commitment to serving others, may be more emblematic of an earlier era, but we at UniBank believe those are the elements most needed in today's world. Our celebration of 150+2 years will serve (in part) to honor the past, but more importantly it serves as our opportunity to set course for the next 150 years. Today, we serve as the largest bank headquartered in Central Massachusetts.

We are grateful for all the members of Team UniBank who make manifest the concept of servant leadership. We thank the many individuals and businesses who bank with us – it is because of your trust and loyalty – that we are positioned to serve our community into the future. ■



Michael Welch, CEO



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Government

City of Worcester Government

The City of Worcester operates under a Council-Manager form of government with a popularly elected Mayor, known as a modified Plan E form of government. The Worcester Public Schools (WPS) system is a quasi-independent department of the City.

The City Council is the City's legislative body while the City Manager serves as chief executive officer. The City Council is made up of 11 members—six elected citywide (or at-large) and five elected from districts. The Mayor is the candidate who receives the most votes in the mayoral election and wins an at-large City Council seat. All at-large candidates are automatically entered into the mayoral race, and have the option of withdrawing their name from consideration for Mayor. In addition to his or her role as City Councilor, the Mayor serves as the ceremonial head of the government and chairs both the City Council and School Committee. The City Council hires the City Manager and can remove him or her by majority vote. The City Manager hires all City employees (except the City Clerk, City Auditor, and WPS employees), oversees City operations, and presents the City Council with an annual budget that must be approved by June 30 of each year. The City Council has the authority to reduce applicable line items in the City Manager's proposed budget, but not increase such items. The approved budget must be balanced.

The Worcester School Committee is the WPS's legislative body while the Superintendent of Schools serves as chief executive officer. Per a lawsuit and corresponding Consent Decree, for the 2023 election cycle, the Worcester School Committee will be elected from six districts, with two majority-minority districts, and two at-large seats. The School Committee approves the district budget, and has authority to transfer within line item accounts, so long as the overall amount remains within the City's appropriation. Additionally, the School Committee may hire or remove by majority vote the Superintendent and may establish and appoint the position of Assistant or Associate Superintendents. The Committee approves or disapproves those hirings, and upon the request of the Superintendent, provides an explanation of any disapproval.

City Council and School Committee elections are held in odd-numbered years.



City of Worcester Seal

City of Worcester Population: 206,518*

2nd Largest City in New England
 114th Largest City in the United States of America
 City of Worcester Population: 206,518*
 Area: 37.37 square miles (96.79 square kilometers)
 Population Density: 5,526 persons per square mile

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

**Source: 2020 Census*

Mayor

Joseph M. Petty

City Council (2020-2021)

Sean M. Rose, District 1

Candy F. Mero-Carlson, District 2

George J. Russell, District 3

Sarai Rivera, District 4

Etel Haxhiaj, District 5

Morris A. Bergman, At-Large

Donna M. Colorio, At-Large

Khrystian A. King, At-Large

Thu Nguyen, At-Large

Kathleen M. Toomey, At-Large

City Clerk

Nikolin Vangjeli

City Auditor

Robert V. Stearns

City Manager

Eric D. Batista, Acting City Manager

City Manager's Cabinet

Nicole Valentine, Assistant City Manager

William Bagley, Jr., Director of Human Resources

Dr. Matilde Castiel, M.D., Commissioner of Health and Human Services

Peter Dunn, Chief Development Officer

Martin Dyer, Acting Fire Chief

Jay J. Fink, P.E., Public Works & Parks Commissioner

Charles R. Goodwin, Director of Emergency Communications/Emergency Management

Michael P. Hamel, Chief Information Officer

Jason L. Homer, Worcester Public Library Executive Director

Julie A. Lynch, Chief of Public Facilities

Timothy J. McGourthy, Chief Financial Officer

John W. Odell, Chief Sustainability Officer

Steven M. Sargent, Police Chief

Christopher P. Spencer, Inspectional Services Commissioner

Michael E. Traynor, City Solicitor

School Committee (2020-2021)

Laura Clancey

Jermaine Johnson

Jermoh Kamara

Susan Mailman

Molly O. McCullough

Tracy O'Connell Novick

Superintendent of Schools

Dr. Rachel Monárrez

Clerk of the School Committee

Dr. Helen A. Friel

United State Senators

Elizabeth Warren

Edward J. Markey

United State Representative

James P. McGovern

Governor

Charles D. Baker

Lieutenant Governor

Karyn Polito

Governor's Council

Paul DePalo

State Senators

Harriette L. Chandler - 1st Worcester

Michael O. Moore - 2nd Worcester

Anne Gobi - Worcester, Hampden, Hampshire, and Middlesex

State Representatives

Kimberly Ferguson - 1st Worcester

Paul Frost - 7th Worcester

Hannah Kane - 11th Worcester

Meghan Kilcoyne - 12th Worcester

John J. Mahoney - 13th Worcester

David Muradian, Jr. - 9th Worcester

James J. O'Day - 14th Worcester

Mary S. Keefe - 15th Worcester

Daniel M. Donahue - 16th Worcester

David LeBoeuf - 17th Worcester

District Attorney

Joseph D. Early Jr.

Clerk of Courts

Dennis P. McManus

Register of Deeds

Kathryn A. Toomey

Register of Probate

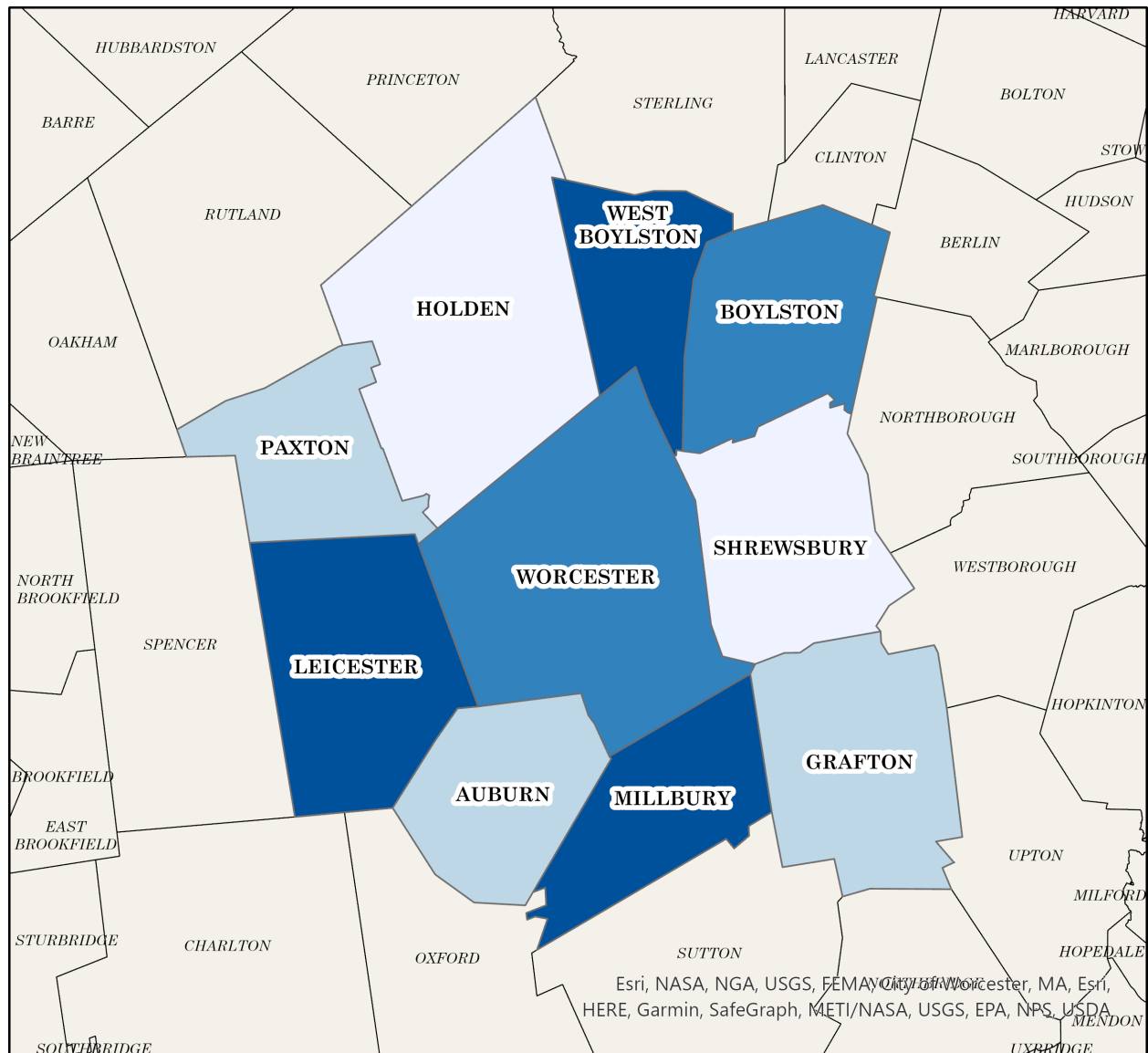
Stephanie K. Fattman

County Sheriff

Lewis G. Evangelidis

Greater Worcester Executive/Administrative Leadership

Auburn — Julie A. Jacobson — Town Manager
 Boylston — April Steward — Town Administrator
 Grafton — Evan Brassard — Town Administrator
 Holden — Peter M. Lukes — Town Manager
 Leicester — David A. Genereux — Town Administrator
 Millbury — Sean Hendricks — Town Manager
 Paxton — Heather Munroe — Town Administrator
 Shrewsbury — Kevin J. Mizikar — Town Manager
 West Boylston — Nancy Lucier — Town Administrator

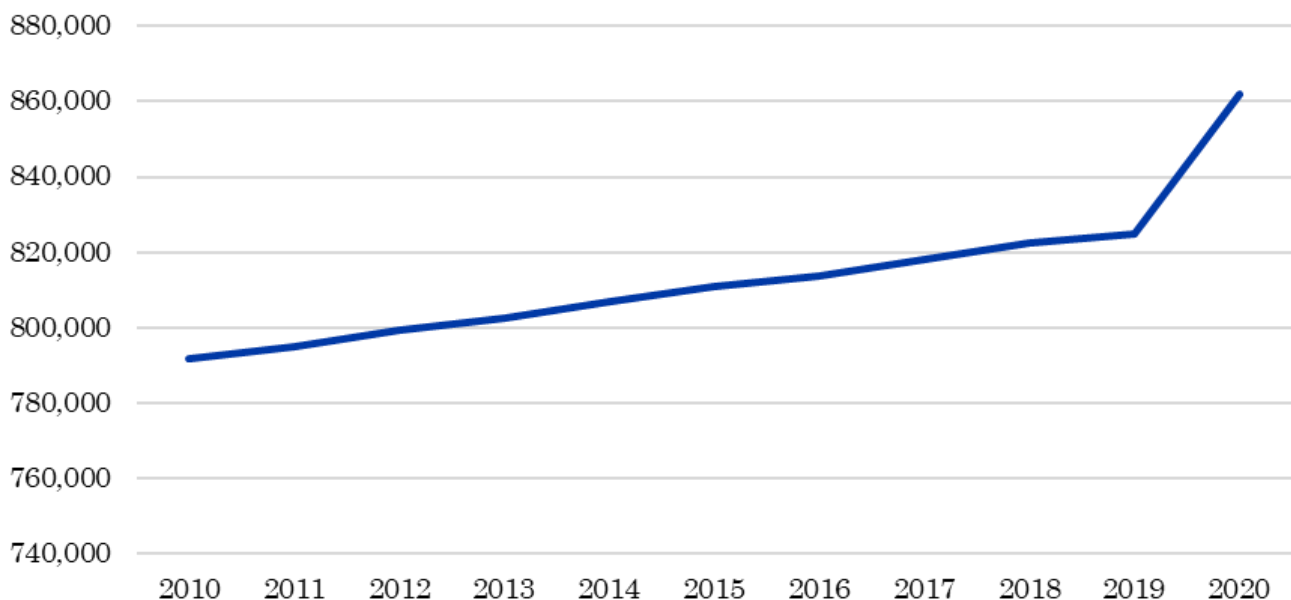


Incorporation Dates for Greater Worcester		
Leicester	1714	
Worcester	1722 as a Town	1848 as a City
Shrewsbury	1727	
Grafton	1735	
Holden	1741	
Paxton	1765	
Auburn	1778	
Boylston	1786	
West Boylston	1808	
Millbury	1813	

Worcester County:

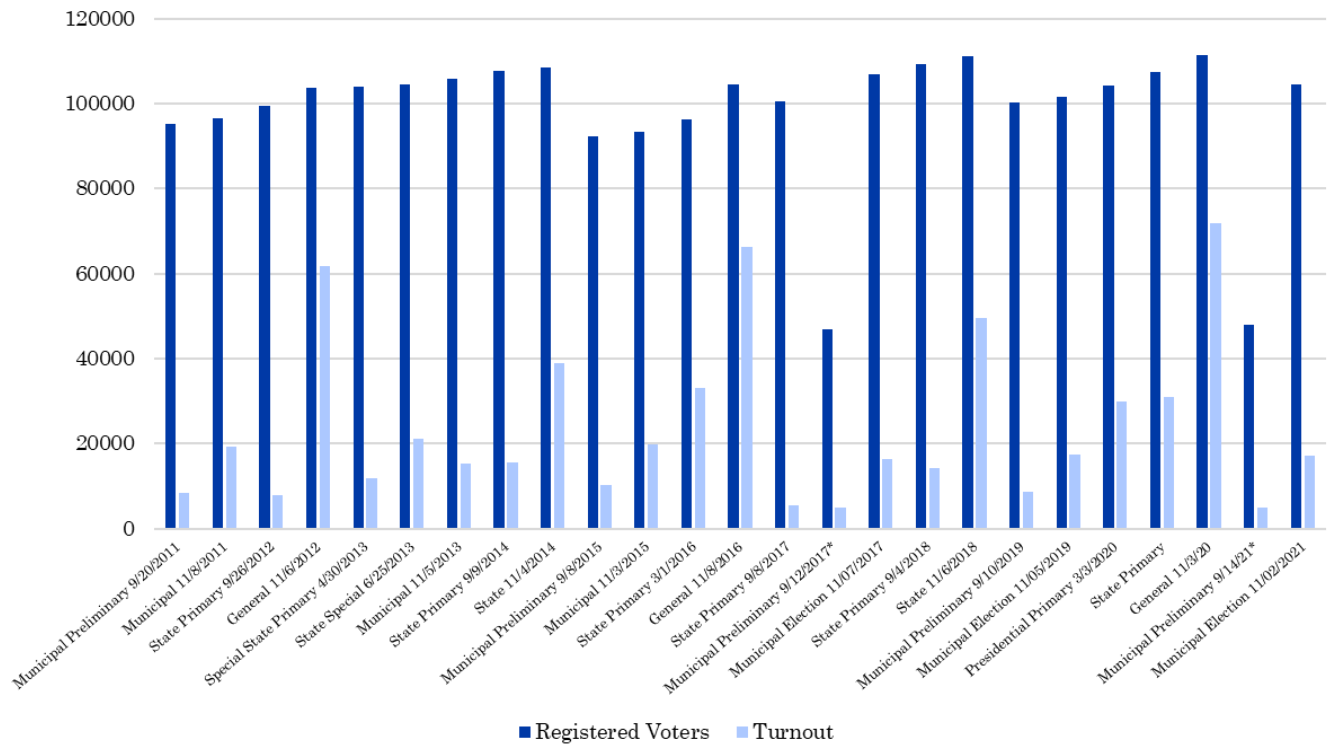
Area: 1,510 square miles

Population: 862,111 (2020)

Population Density: 571 persons per square mile
60 cities and towns (including Worcester)**Worcester County: Population 2010 — 2020**

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Registered Voters & Ballots Cast, 2010-2021



*Number of registered voters in Districts 1 and 5 where preliminary race held.

Source: City of Worcester Elections Commission.

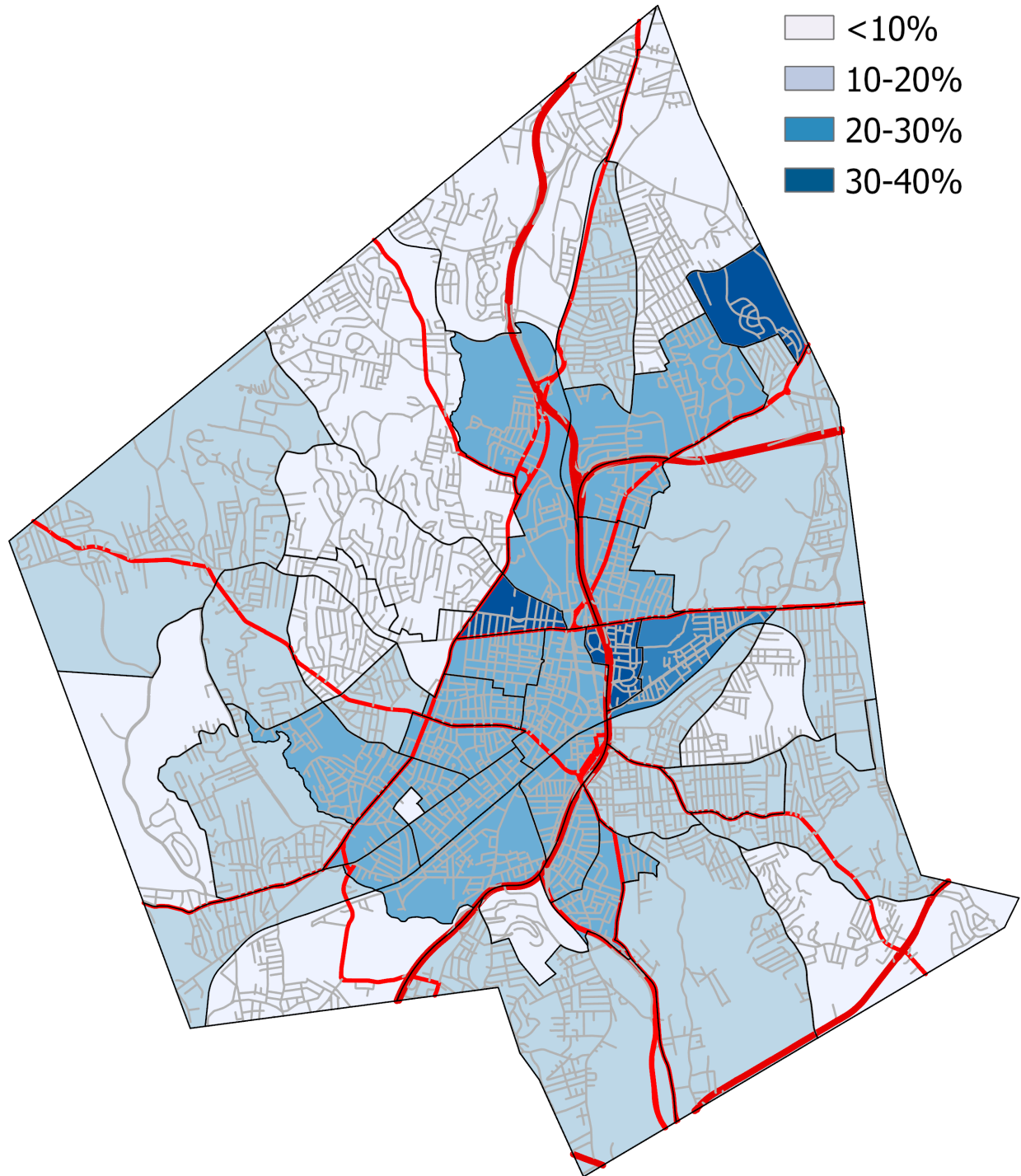
Voter turnout in the City of Worcester varies depending on the type of election. Municipal elections, which are held in odd-numbered years, experience the lowest turnout. Only 16.6% of registered voters turned out in November 2021 to vote for the Mayor, City Council, and School Committee. State elections, which occur in even-numbered years, and especially elections including the election for President, experience the highest turnout. 64.6% of Worcester's electorate voted in the November 2020 general election and 44.7% of registered voters turned out for the 2018 election.

Worcester: Party Affiliation & Registration, as of 6/9/2022	
Party Affiliation	Registered Voters
Unenrolled	62,406
Democrat	36,416
Republican	7,416
Libertarian	467
United Independent Party	460
Conservative	110
Green Rainbow	103
American Independent	66
Inter 3rd Party	63
Socialist	48
MA Independent Party	47
Latino-Vote Party	37
Working Families	31
We The People	28
Pizza Party	27
Pirate	18
Green Party USA	12
America First Party	11
Constitution Party	9
The People's Party	9
Reform	5
Veteran Party America	5
Twelve Visions Party	5
Rainbow Coalition	3
Workers Party	2
World Citizens Party	1
New Alliance	1
Prohibition	1
American Term Limits	1
Natural Law Party	0
New World Council	0
Timesizing Not Down	0
	107,808

As of June 9, 2022 Source: City of Worcester Elections Division.

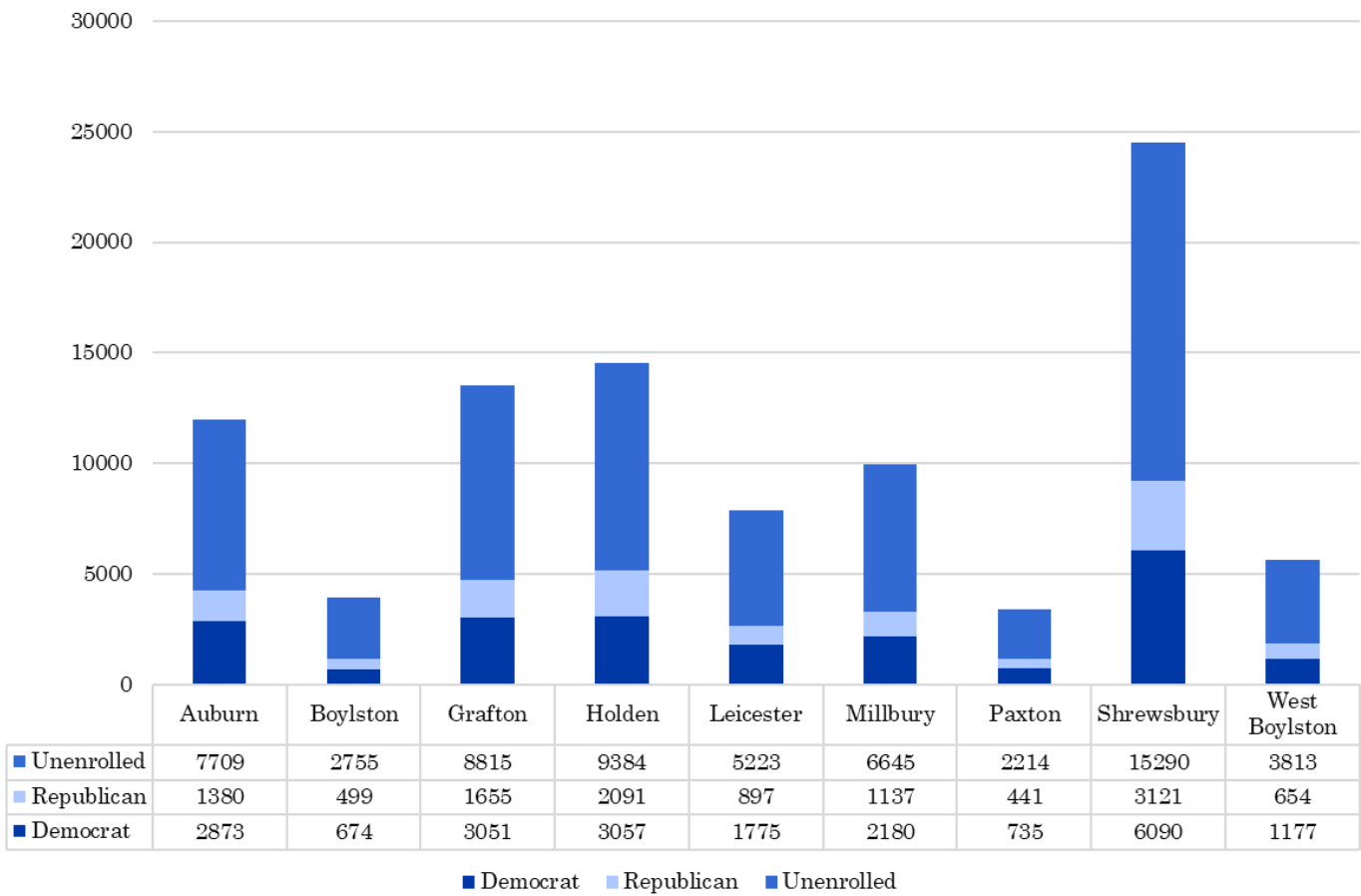
As of June 2022, there were 107,808 registered voters in the City of Worcester. 57.9% of voters were not enrolled in a political party, 33.8% of voters registered as Democrats, and 6.8% of voters registered as Republicans. Since 2010, the number of unenrolled voters has increased by 48.7%, the number of Democratic voters has decreased by 8.7%, and the number of Republicans has decreased by 3.3%.

Worcester: Voter Turnout Percentage by Precinct, November 2, 2021 Election



Source: Worcester Election Commission

Greater Worcester: Party Affiliation & Registration, as of February 2021



Source: Office of the Secretary of the Commonwealth of Massachusetts.

Tax Classification

The City of Worcester taxes property based on the following classifications: residential, commercial, industrial, and personal. Property that is owned by nonprofit institutions, as determined by Massachusetts General Law 156B, are exempt from paying property taxes as long as the property is fulfilling the non-profit mission of the organization.

Residential property is property used for human habitation and includes accessory land or buildings that are exclusively used by the residents of the property or their guests. **Commercial** property is used for business purposes including but not limited to commercial, retail, trade, service, recreational, agricultural, artistic, sporting, fraternal, governmental, educational, medical or religious purposes. **Industrial** property includes property used for manufacturing, milling, converting, producing, processing, extracting, or fabricating materials to create commercial products or materials. **Personal** property is trade stock, machinery used for business, and all furnishings and effects not kept at an individual's residence.

Worcester: Property Tax Rates, FY22*	
Type	Fiscal Year 2022
Residential	\$15.21
Commercial/Industrial/Personal Property (CIP)	\$33.33

* Rates are per \$1,000 of value.

Source: City of Worcester.

Tax Shift

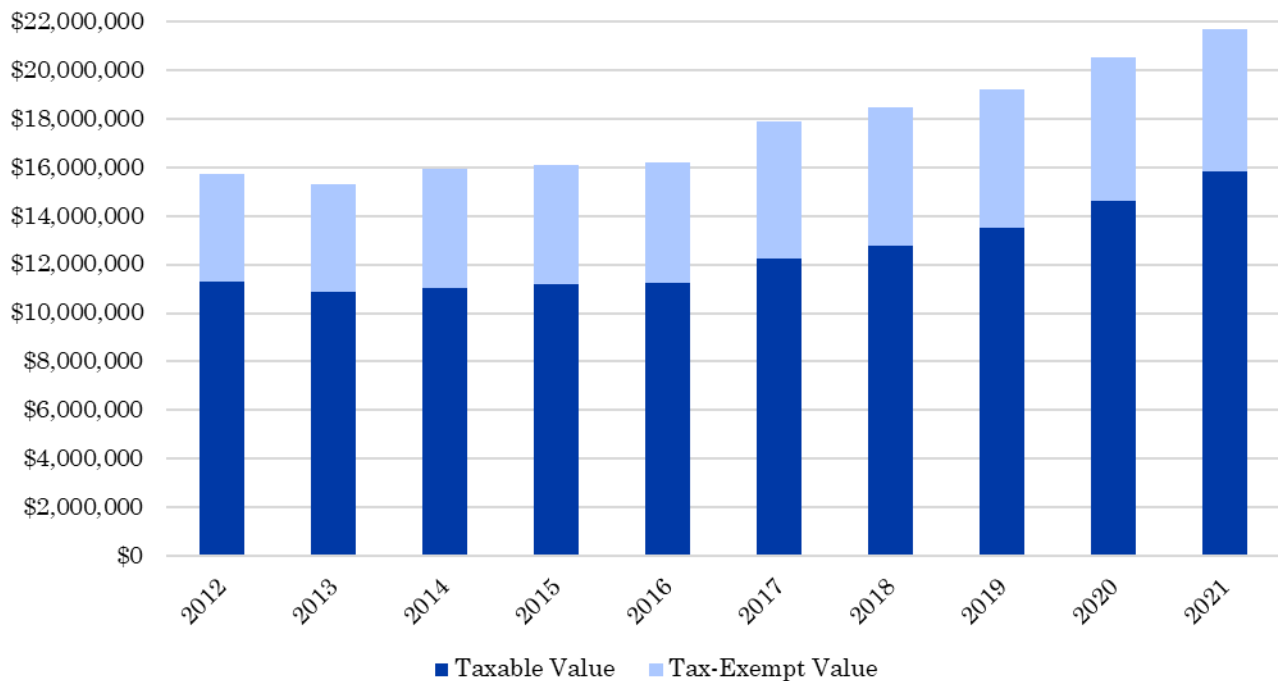
The City of Worcester has a dual tax rate, which assesses residential and commercial/industrial/personal (CIP) property at different rates. Under Massachusetts law, communities are limited in their ability to shift the tax burden among classes to ensure that the burden is not shifted solely onto one side. A single tax rate is represented by a factor of 1.

Worcester: Tax Shift, FY22			
Lowest Residential Factor Allowed	Residential Factor Selected	Maximum CIP Shift Allowed	CIP Shift
0.7794	0.7869	1.75	1.72

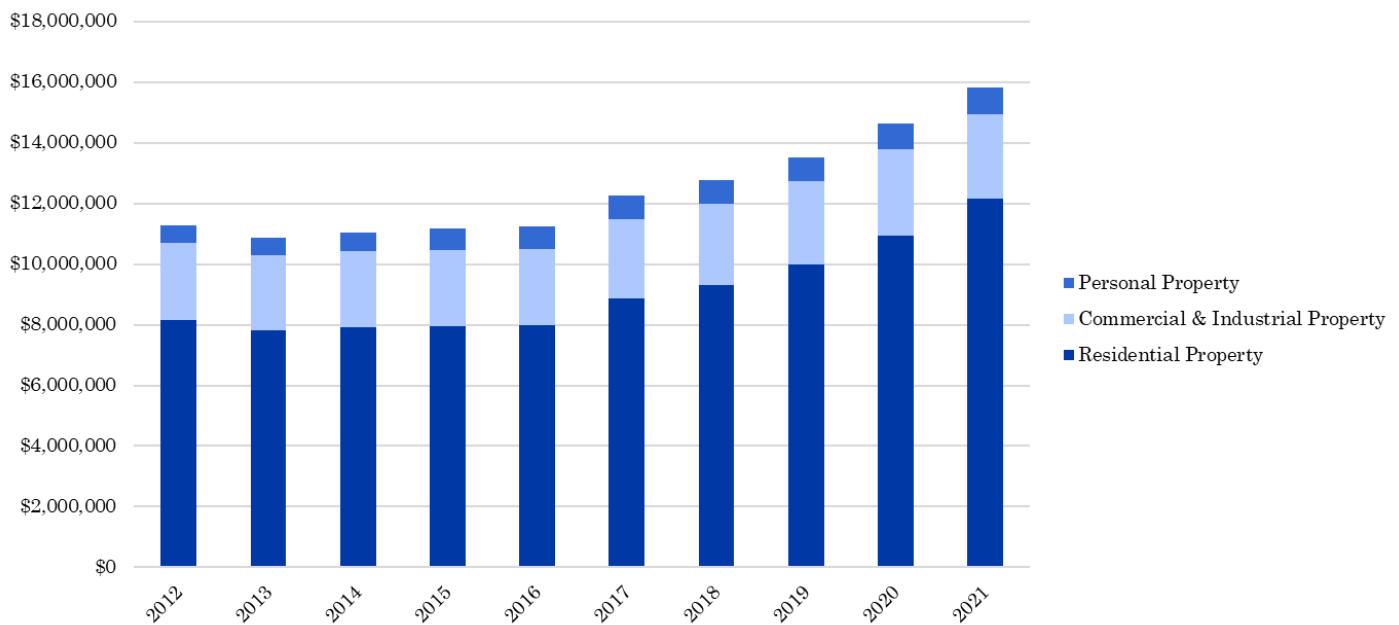
Source: Massachusetts Department of Revenue

Worcester: Tax Value of Property, FY21		
Tax Status	Estimated Value	Percent of Total
Total Taxable and Tax-Exempt Property Value	\$21,712,903	100.0%
<i>Taxable Property Values</i>	<i>\$15,824,757</i>	<i>72.9%</i>
<i>Tax-Exempt Property Values</i>	<i>\$5,888,146</i>	<i>27.1%</i>
Class		
Residential	\$12,150,549	56.0%
Commercial/Industrial/Personal Property	\$3,674,208	16.9%

Source: City of Worcester Comprehensive Financial Report, 2021.

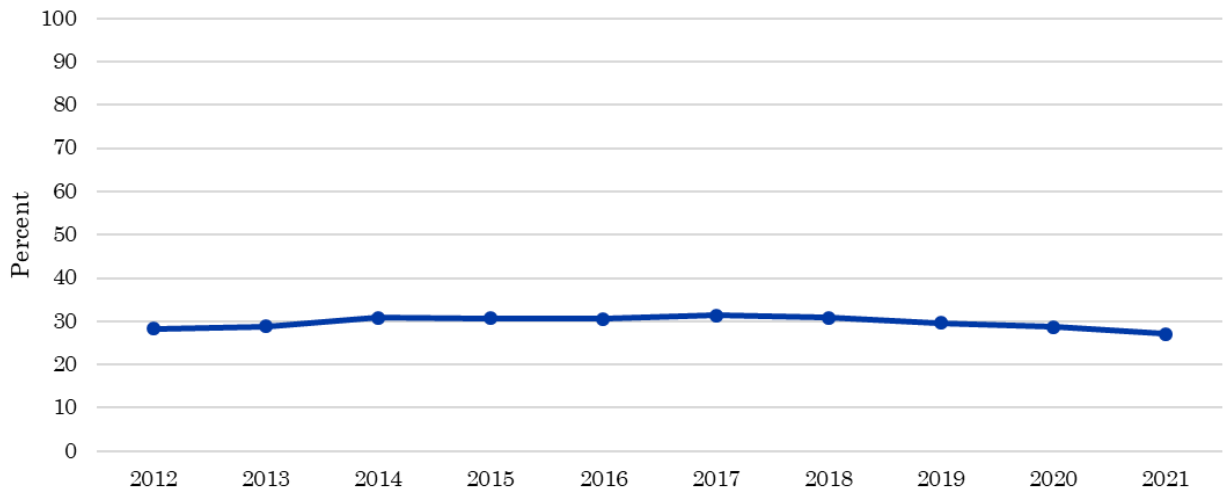
Worcester: Assessed Value of Taxable & Tax-Exempt Property, 2012-2021

Source: City of Worcester Comprehensive Annual Financial Report, 2021.

Worcester: Assessed Value of Taxable Property by Classification, 2011-2021

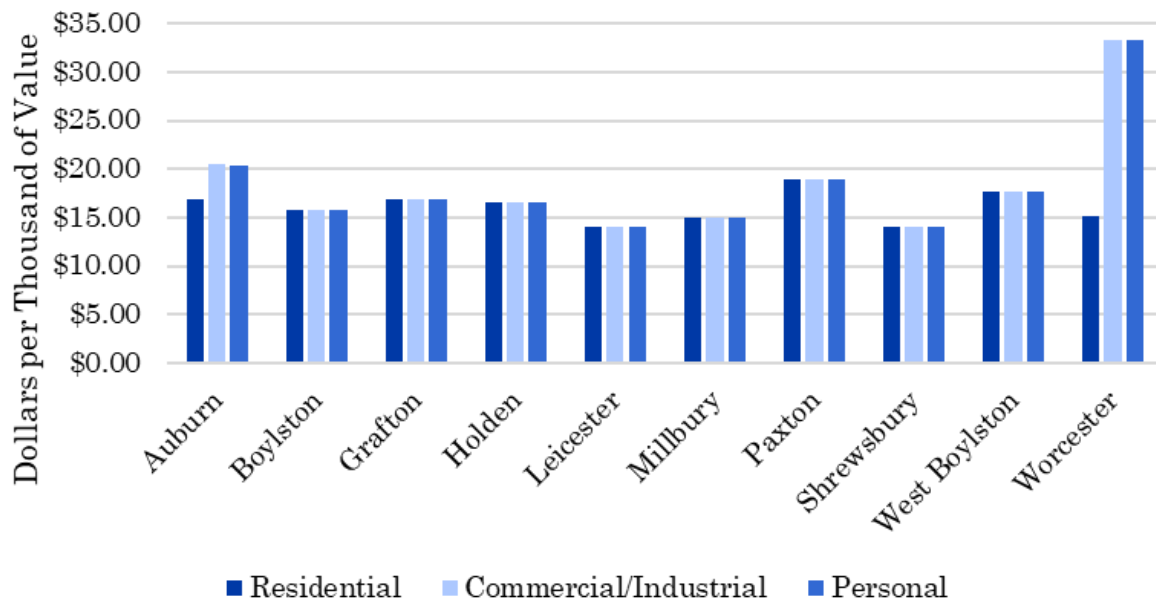
Source: City of Worcester Comprehensive Annual Financial Report, 2021.

Worcester: Tax-Exempt Value as Percent of Total Property Values, 2012-2021



Source: City of Worcester Comprehensive Annual Financial Report, 2021.

Greater Worcester: Property Tax Rates, FY22



Source: Massachusetts Department of Revenue.

In Greater Worcester, only the City of Worcester and the Town of Auburn tax commercial and industrial properties at a higher rate than residential properties. Auburn has voted to decrease the gap between the two rates over the last few years. Additionally, Auburn is the only municipality in Greater Worcester that taxes Personal Property and Commercial/Industrial Property at different rates.

Worcester: Principal Taxpayers, FY21				
<u>Taxpayer</u>	<u>Type of Business</u>	<u>Assessed Valuation</u>	<u>Fiscal 2021 Tax Bill</u>	<u>Percent of Tax Levy</u>
Massachusetts Electric Co.	Electric Utility	\$392,169	\$14,197	4.3%
NSTAR Gas Co.	Gas Utility	\$215,464	\$7,801	2.4%
VHS Acquisition Subsidiary (St Vincent Hospital)	Medical Care	\$144,988	\$5,249	1.6%
V3B SA LLC (Lincoln Plaza)	Shopping Plaza	\$65,361	\$2,366	0.7%
Hanover Insurance Group	Insurance	\$62,161	\$2,250	0.7%
Worcester TC LLC (Abbvie)	Biotechnology Park	\$60,533	\$2,191	0.7%
New England Power Company	Electric Utility	\$59,619	\$2,158	0.7%
MC Roseland Worcester LLC	Real Estate	\$57,760	\$2,091	0.6%
Front Street Associates LLC	Real Estate	\$45,836	\$1,659	0.5%
Verizon New England	Communications	\$41,931	\$1,517	0.5%

*Amounts expressed in thousands.

Source: City of Worcester Comprehensive Annual Financial Report, June 30, 2021.

Unfunded Liabilities

Upon retirement, Massachusetts state and municipal employees are eligible for pension and other post-employment benefits (OPEB), such as health care. Each year, Massachusetts governmental entities must determine current costs (pension and benefits provided to existing retirees) and future costs (pension and benefits owed upon retirement to current employees, as determined by actuaries) to determine total liability.

The City of Worcester, like most municipalities, has struggled with outstanding pension and OPEB liability. In 1992, the Commonwealth of Massachusetts offered grant funding to cities and towns that committed to a schedule to eliminate unfunded pension liability. The City of Worcester accepted the offer, committing itself to full pension funding by 2028. In light of the financial downturn, in 2010 the Commonwealth offered cities and towns a waiver on the original plans, which allowed Worcester to extend its schedule to June 30, 2032.

Worcester: Pension Liability, FY21	
Total Pension Liability	\$1,593,408,122
Funded Portion of Pension Liability	\$1,159,822,053
Funded Pension Obligation	72.8%

Source: City of Worcester Comprehensive Annual Financial Report, 2021

While pension liabilities must be forward-funded, Massachusetts does not mandate that municipalities address OPEB liabilities. Under the City's Seven-Point Plan, Worcester contributes 30% of "free cash"—the surplus remaining after the end of the fiscal year—to be deposited into the OPEB Trust. If "free cash" is not available, no funds are deposited. As a result, Worcester's outstanding liability increases annually and is projected to exceed \$2.5 billion within the next 30 years.

Worcester: Other Post-Employment Benefit Liability, FY21	
Total OPEB Liability	\$1,533,889,120
Funded Portion of OPEB Liability	\$25,774,748
Funded OPEB Obligation	1.7%

Source: City of Worcester Comprehensive Financial Report, 2021

Worcester: Fund Balance, FY21	
Fund Balance - FY20	\$70,242,483
Change in Fund Balance - FY20-FY21	\$17,016,568
Fund Balance as a % of FY22 Budget	9.6%

**The City's fund balance is the difference between assets and liabilities in the general fund.*

Source: City of Worcester Comprehensive Annual Financial Report, 2021.

Bond Rating

In order to borrow money, municipalities issue bonds that are purchased by investors for a guaranteed return over time. Bond ratings serve as third-party evaluations of a bond issuer's ability to repay the bond according to the terms. Three primary rating agencies—Fitch Ratings, Moody's Investors Service, and Standard & Poor's Rating Service—evaluate most municipal bonds. Bonds are given ratings ranging from a high of "AAA" or "Aaa" to a low of "C" or "D". Worcester's ratings indicate attractive, high grade bonds that are considered at low risk of default.

Rating Agency	Rating
Fitch Ratings	AA
Moody's Investors Service	Aa3
Standard & Poor's Rating Service	AA-

Source: City of Worcester Comprehensive Annual Financial Report, 2021

Worcester: Public Debt, 2021* (in thousands)	
Total Outstanding Long-Term Debt	\$803,075
Bond Anticipation Notes as of 6/30/20	\$183,937
Bonded Debt per Capita	\$3,979
Bonded Debt as a % of Assessed Valuation	5.19%

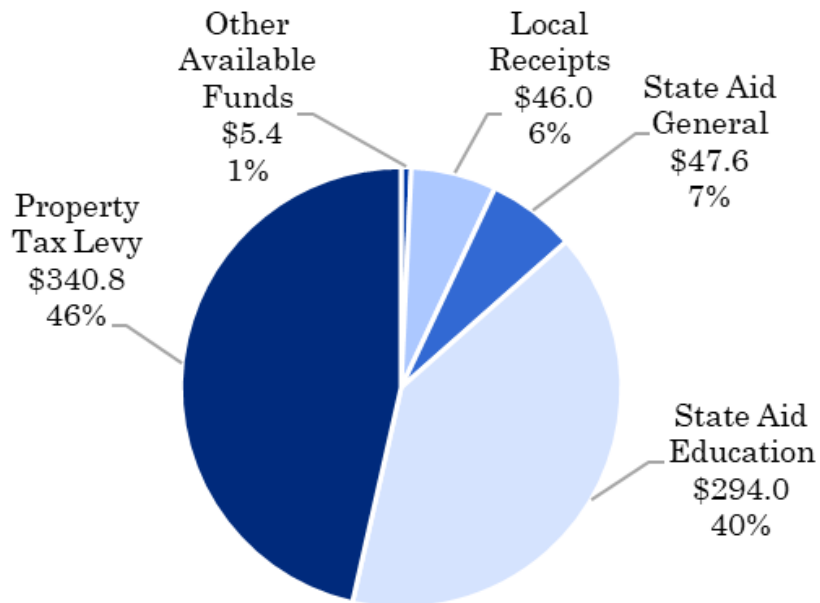
*A portion of the long-term debt is supported by fees from water and sewer usage, public parking garages, and DCU Center operating revenue. Debt related to district improvement financing (DIF) capital projects for CitySquare and the DCU Center are supported from new revenue sources generated within or for the designated geographic areas.

Source: City of Worcester Comprehensive Annual Financial Report, 2021

Greater Worcester: FY22 Budgets

	Total City Budget (including schools)	Education Budget	Education % of Total Budget	Police Budget	Fire Budget	Police & Fire % of Total Budget
Auburn	\$74,206,770	\$27,988,540	37.72%	\$5,015,022	\$3,569,212	11.57%
Boylston	\$18,203,089	\$10,983,267	60.34%	\$1,394,176	\$526,541	10.55%
Grafton	\$68,287,943	\$39,707,473	58.15%	\$2,434,184	\$831,343	4.78%
Holden	\$56,818,081	\$33,578,790	59.10%	\$2,579,054	\$2,450,070	8.85%
Leicester	\$32,923,212	\$17,582,550	53.40%	\$2,271,573	\$332,934	7.91%
Millbury	\$48,836,291	\$24,763,244	50.71%	\$2,832,055	\$798,909	7.43%
Paxton	\$16,689,951	\$7,477,949	44.81%	\$1,117,052	\$414,593	9.18%
Shrewsbury	\$129,573,964	\$70,535,606	54.44%	\$6,356,435	\$4,290,031	8.22%
West Boylston	\$26,838,551	\$12,897,774	48.06%	\$1,643,117	\$968,269	9.73%
Worcester	\$733,767,766	\$420,816,942	57.35%	\$52,767,291	\$41,820,212	12.89%

Sources: Individual Town Budgets.

Worcester: Budgeted Revenues in Millions of Dollars, FY21

Source: City of Worcester.

Worcester: Budgeted Expenditures, FY21

The City's final FY22 budget was \$733.7 million. City leadership has discretion over only a small part of the City's expenditures. A significant portion of the City's annual budget is fixed obligations to education, pensions, and debt service.

City Budget
\$733.7 million

Education
\$420.8 million
(57.4%)

City Services
\$171.7 million
(23.4%)

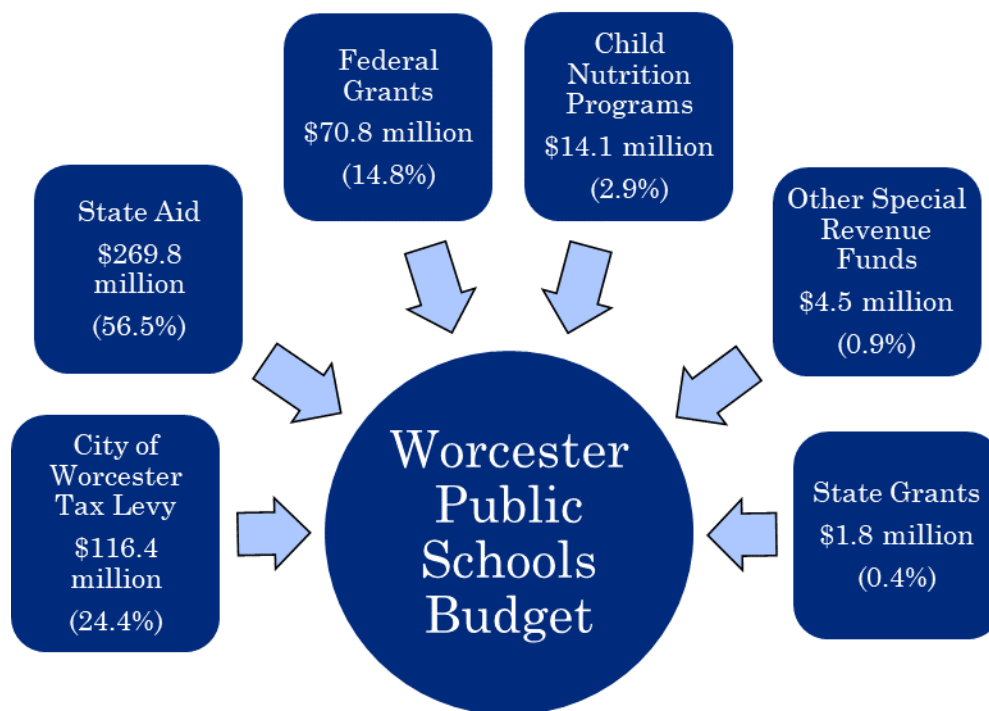
Fixed Costs
\$141.2 million
(19.2%)

Source: City of Worcester.

The City of Worcester is heavily dependent on local property tax revenues and state aid for education. State education funding is established by the Commonwealth's Chapter 70 formula, which provides education subsidies to cities and towns using standardized criteria including the characteristics of local school-age populations and municipal finances. In 2015, the Commonwealth's Foundation Budget Review Commission called for changes to the formula. In 2019, the Massachusetts Legislature passed the Student Opportunity Act which provided the first substantial update to the education formula since 1993. Many districts, particularly Gateway Cities, received a substantial funding increase for public schools.

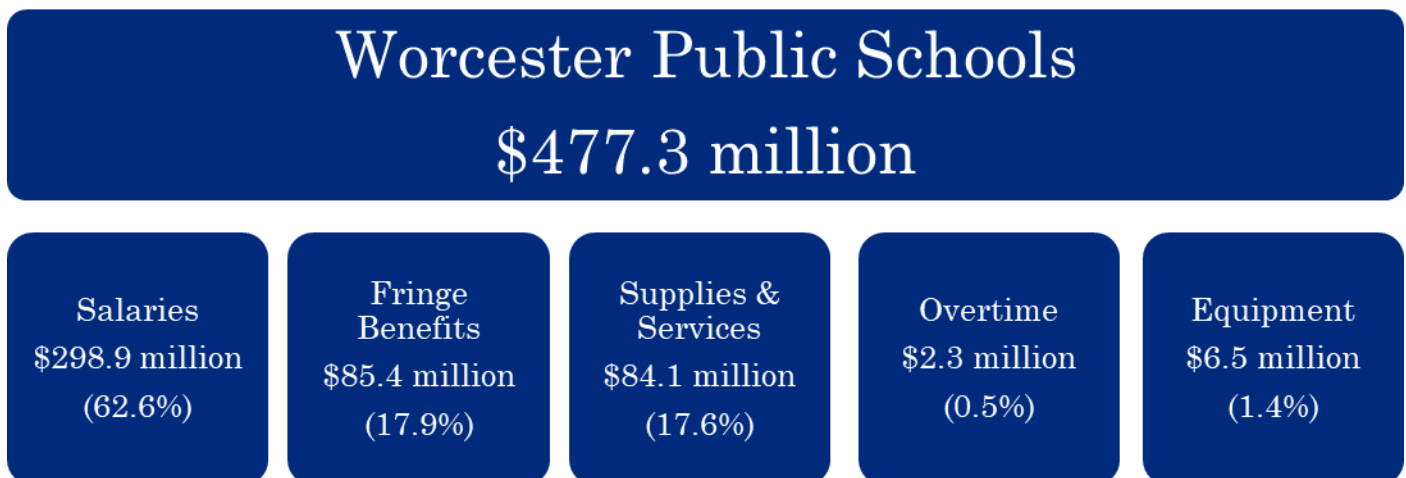
The Worcester Public Schools allocation within the City budget is augmented by available Federal, State, and other outside grants.

Worcester Public Schools: Budgeted Revenues, FY22



Sources: City of Worcester & Worcester Public Schools Fiscal 2022 Budgets.

Worcester Public Schools: Budgeted Expenditures, FY22



Sources: City of Worcester & Worcester Public Schools Fiscal 2022 Budgets.

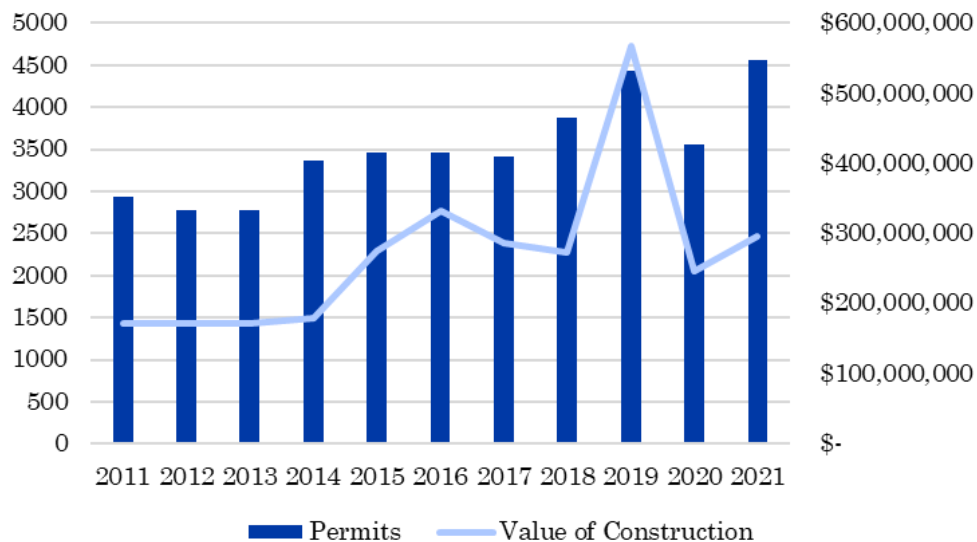
Worcester: Budgeted Employee Counts, FY22

<i>Positions</i>	<i># of Budgeted Employees</i>
Legislative Offices	
City Council	12
Mayor's Office	2
City Clerk	11
Election Commission	10
Auditing	8
City Manager's Office	
City Manager's Office	14
Elder Affairs	10
Public Library	94
Dept. of Economic Development	
Economic Development	42
MassHire Central Region Workforce Board	10
MassHire Central Career Center	35
Cable Services	4
Diversity and Inclusion	2
Sustainability and Resilience	7
Public Facilities	18
Health and Human Services	23
Public Health	28
Human Resources	17
Law Department	16
Police Department	527
Fire Department	423
Emergency Communications	69
Dept. of Inspectional Services	63
Worcester Public Schools	4,753
Public Works and Parks	
Golf	2
Public Works	208
Parks, Recreation, and Hope Cemetery	62
Enterprise: Sewer Division	70
Enterprise: Water Division	135
Administration & Finance	11
Treasury	26
Purchasing	3
Assessing	10
Technical Services	34
TOTAL: CITY ONLY	2,006
TOTAL: CITY & WPS	6,759

Each year, as part of the annual budget process, the City Council (and the School Committee in the case of the Worcester Public Schools) approves staff positions within City departments. Authorized positions are filled at the discretion of the City or WPS Administration and can be full-time or part-time. While 6,567 positions are budgeted, it is possible that not all of these positions will be filled during the fiscal year or that some of these positions are filled with part-time employees.

Worcester: Budgeted Employee Counts, FY22

<i>Positions</i>	<i># of Budgeted Employees</i>
District Administrators	29
School Administrators	91
Teachers	2,546
Instructional Assistants	659
Teacher Substitutes	111
Crossing Guards	110
Educational Support	104
Custodial Services	158
Maintenance Services	28
Full Year Clerical	67
School Year Clerical	77
School Nurses	110
District Support	56
Student Transportation	126
Child Nutrition	315
Head Start	166
TOTAL: WPS ONLY	4,753

Worcester: Real Estate Investment, 2011-2021

Source: City of Worcester Executive Office of Economic Development.

Worcester: Water and Sewer Rates, 2021

	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22
Water Rates	\$3.51	\$3.54	\$3.60	\$3.60	\$3.67	\$3.67	\$3.67	\$3.67	\$3.67
Sewer Rates	\$5.94	\$6.29	\$6.62	\$6.92	\$7.08	\$7.43	\$7.80	\$8.15	\$8.48

Source: City of Worcester Department of Public Works & Parks. *Rates are per 100 cubic feet of usage. Sewerage use is based on 80% of water usage.

Worcester: Public Library System, 2021

# of Independent Branches	3
# of School-Based Branches	4
# of Mobile Libraries	2
Print Holdings (including periodicals)	551,707
Total Circulation	393,882
Total eCirculation	155,399
Total Number of Visits During Public Hours	163,168
Total Number of Students at School based branches during class time	22,443

Source: Worcester Public Library.

Worcester: Parks and Recreation, 2021

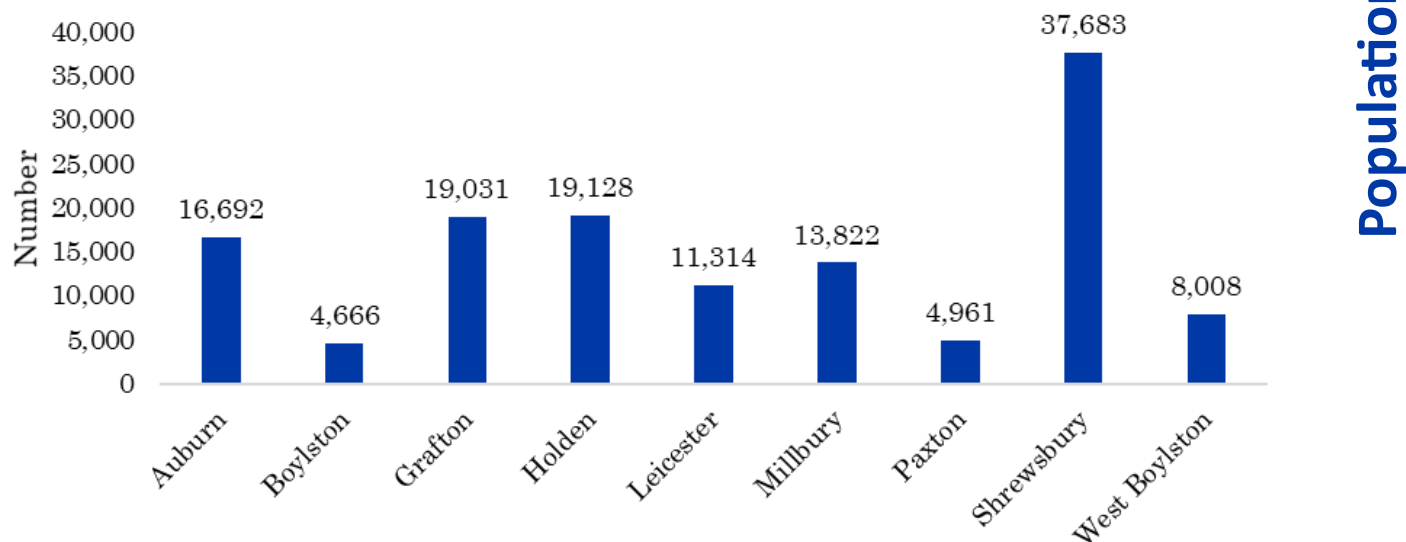
Parks	61
Dog Parks	3
Playgrounds	37
Fields for Sports	67
Swimming Beach, Pool, Spray Parks	7
Total Park Acreage	1391.21
% of Total Acreage in City	5.82%
State Parks	2
State Pools and Beaches	4

Sources: City of Worcester Department of Public Works & Parks.



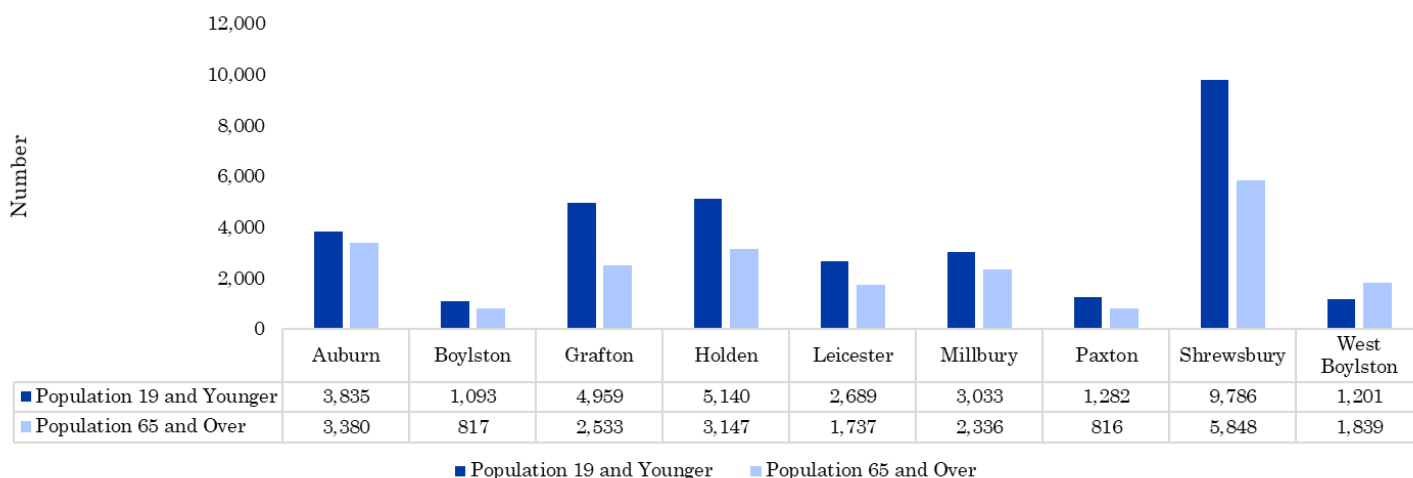
Demographics & Economy

Greater Worcester: Population, 2020

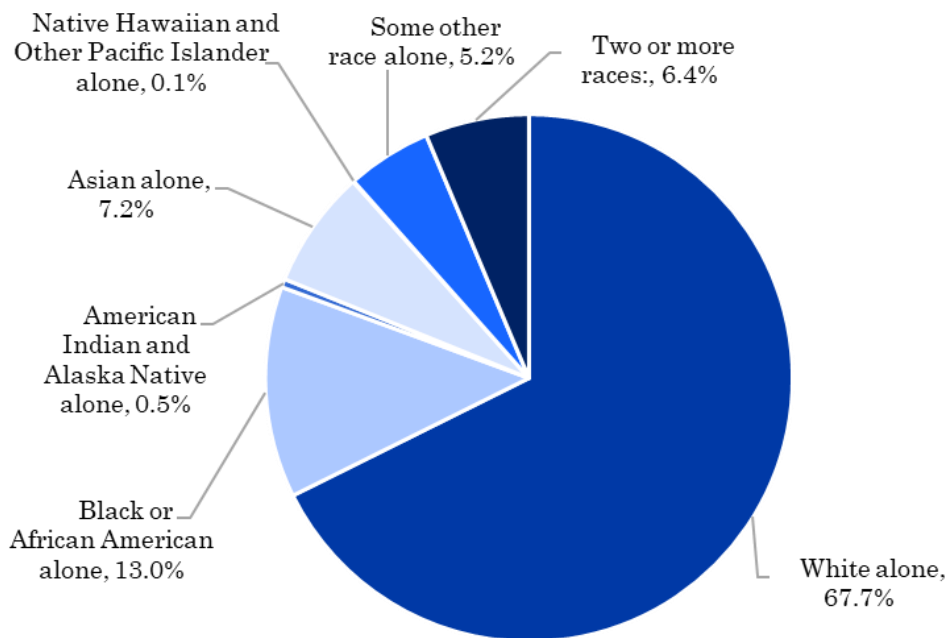


Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Greater Worcester: Population 19 Years of Age or Under and Population 65 Years of Age or Over, 2020



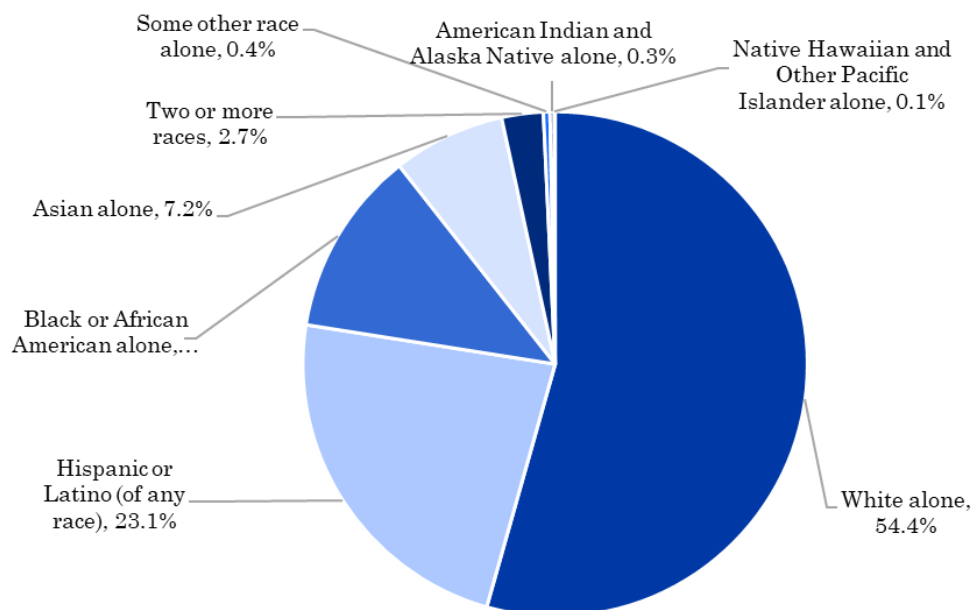
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Population by Race, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

The U.S. Census Bureau tallies five categories of race: “American Indian or Alaska Native,” “Asian,” “Black or African American,” “Native Hawaiian or Other Pacific Islander,” and “White.” Hispanic origin is defined as ethnicity, rather than race, and persons defined as Hispanic or Latino can be of any race.

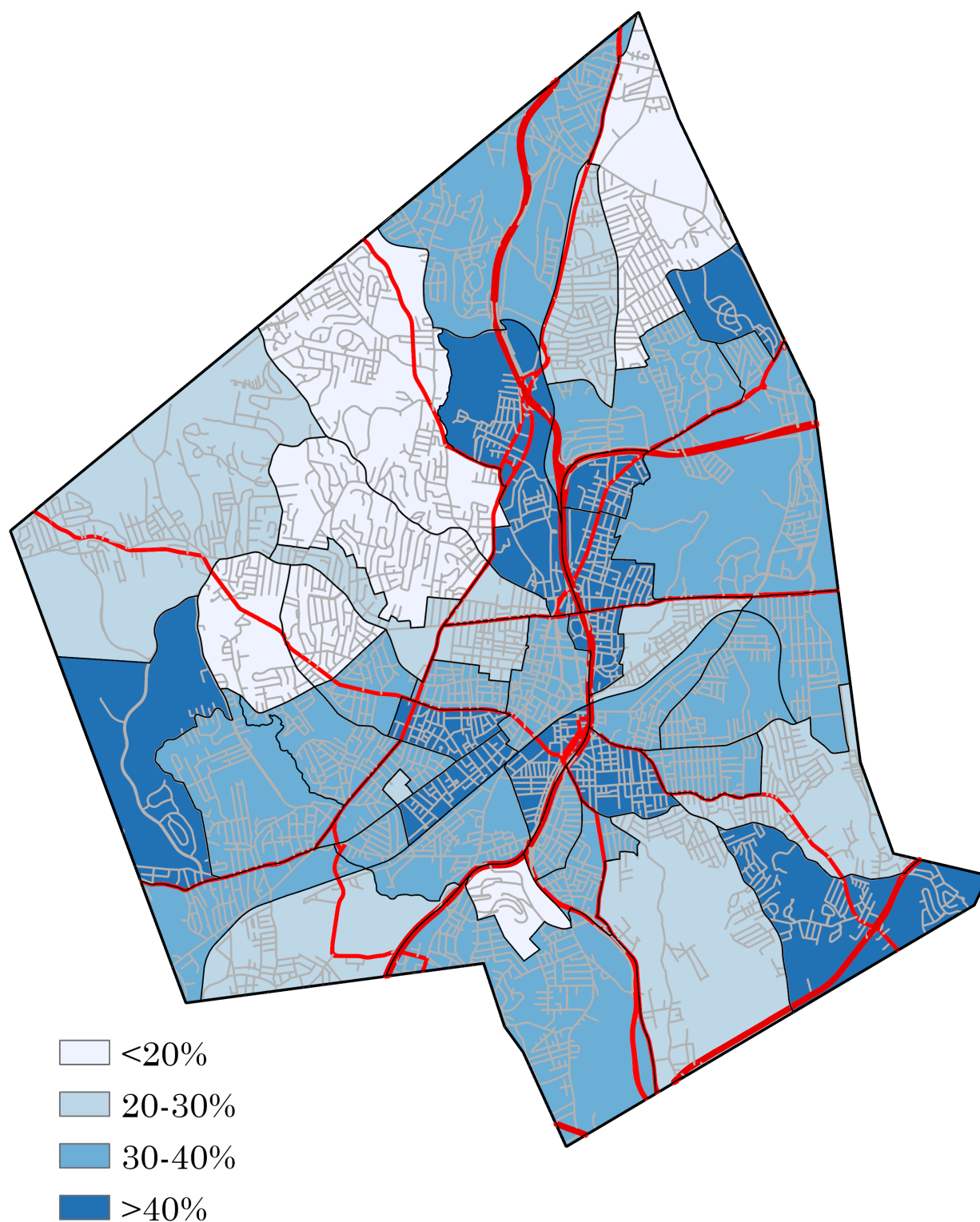
“Worcester Population by Race, 2020” illustrates Worcester’s racial composition according to the Census Bureau’s five racial categories. People of Hispanic origin fall into any one of the five categories.

Worcester: Population by Race & Ethnicity, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

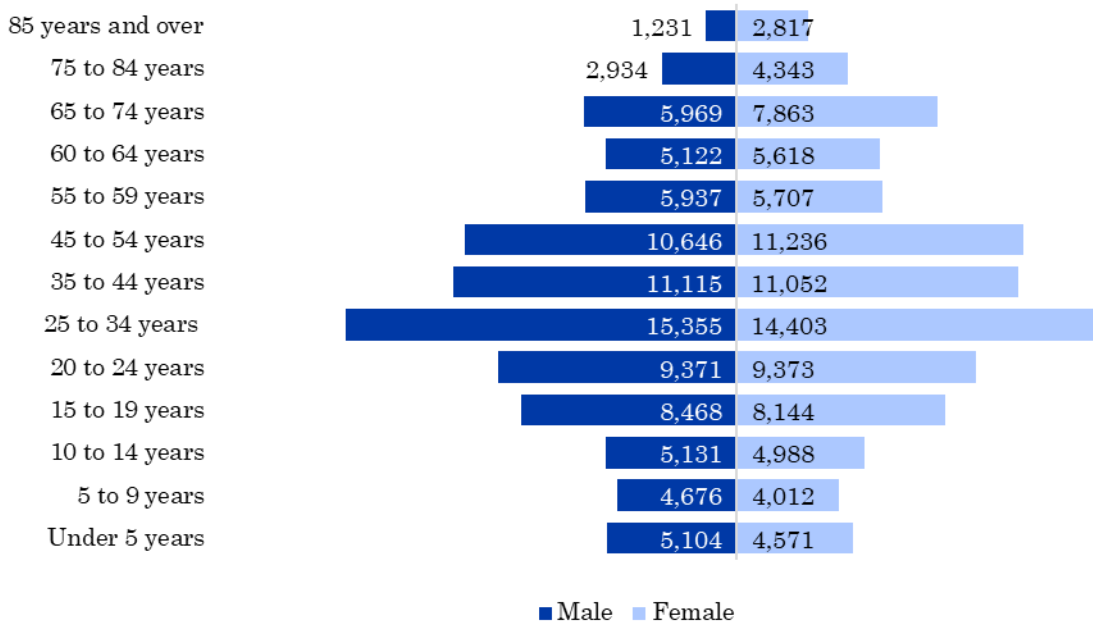
“Worcester Population by Race & Ethnicity, 2020” illustrates Worcester’s population by both race and ethnicity. It indicates that people who identify as Hispanic or Latino make up approximately 23.1% of Worcester’s population, however it does not account for their racial composition and therefore may undercount certain racial categories.

Worcester: Percent Non-White Population, 2020



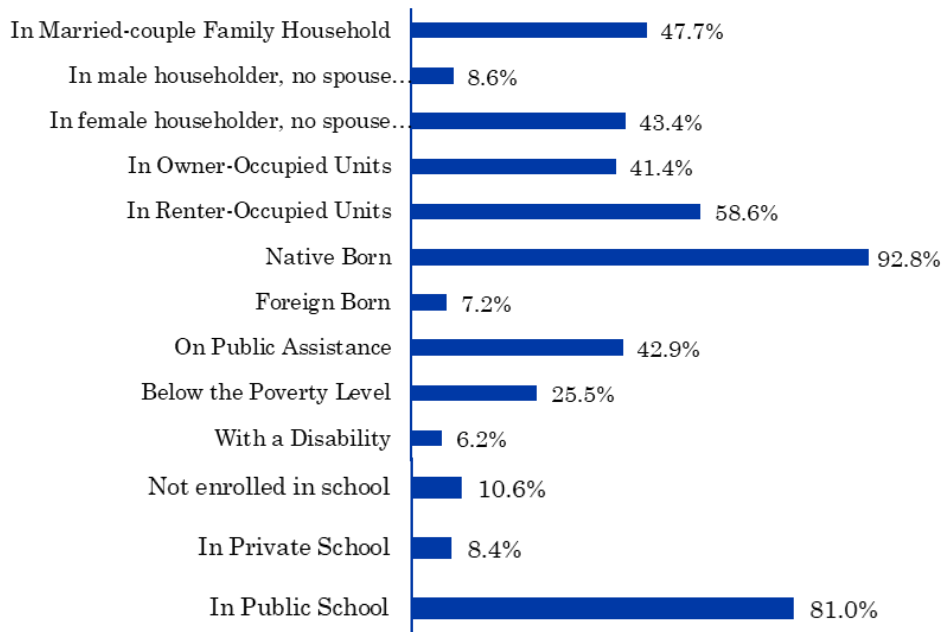
Population

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Population by Age and Sex, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

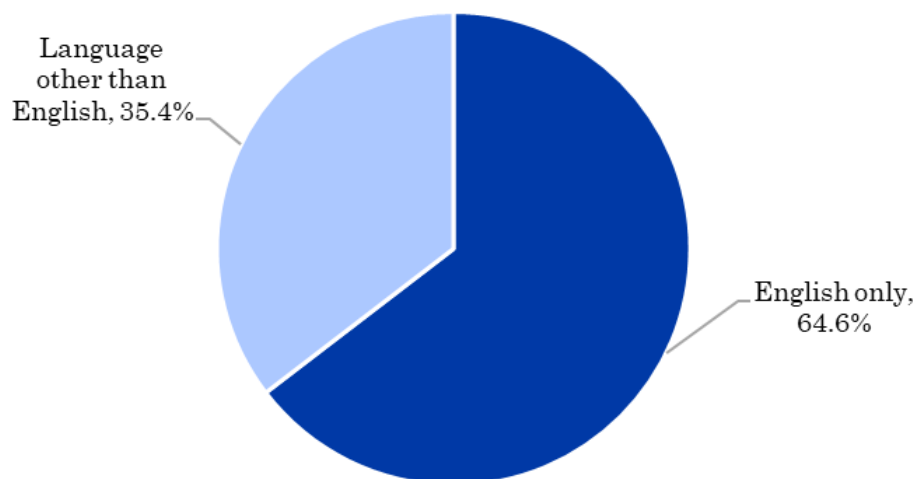
According to the U.S. Census Bureau, the median age of Worcester residents is 34.6 years old. The median age of Massachusetts is 39.6 and the median age of the United States is 38.2 years old.

Worcester: Characteristics of the Under-18 Population by Percent, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

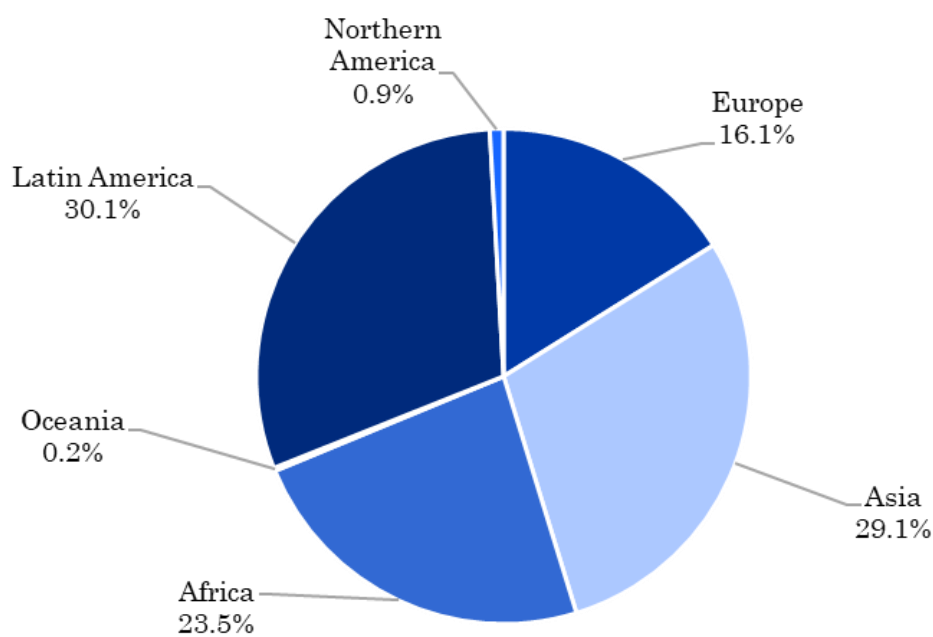
Worcester: Language Spoken At Home, 2020*

In 2020, 65% of the Worcester population spoke only English. Of the other languages spoken by Worcester residents, 17.3% spoke Spanish, 8.8% spoke Other Indo-European languages, and 5.2% spoke Asian and Pacific Island languages, and 5.5% spoke another language. According to the Worcester Public Schools, more than 74 languages are spoken by children in the school system.



*For population 5 years and older.

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Region of Origin of Foreign Born Residents, 2020

Approximately one in five residents of Worcester was born outside the United States, with 30.1 of those residents originating in Latin America, followed closely by Asia with 29.1%.

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Foreign Born Residents, 2020		
Total Foreign Born	Foreign Born Naturalized Citizen	Foreign Born Not US Citizen
38,875	20,825	18,050

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

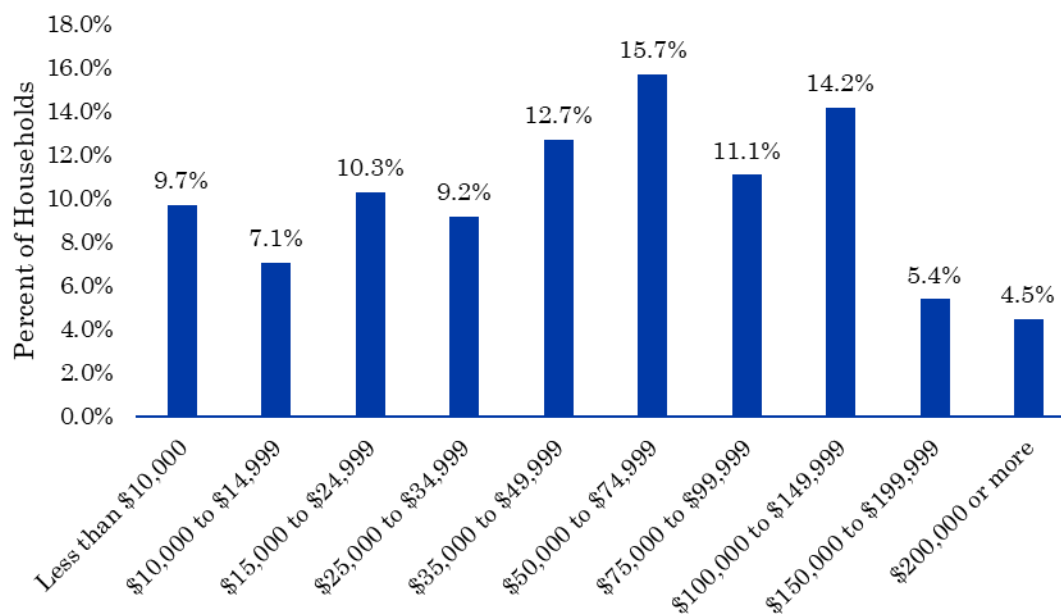
Worcester: Number of Residents from the Top 10 Countries of Origin, 2011 and 2020			
	2011		2020
Vietnam	3,506	Ghana	5,022
Brazil	3,461	Vietnam	4,382
Ghana	3,358	Dominican Republic	2,898
Dominican Republic	2,705	Brazil	2,373
Albania	2,115	China, excluding Hong Kong and Taiwan	1,912
El Salvador	1,724	Albania	1,873
China, excluding Taiwan and Hong Kong	1,341	El Salvador	1,169
Poland	1,137	Ecuador	1,056
Kenya	905	Poland	1,027
India	694	India	975
Total	20,946	Total	21,672

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Households, 2020	
Total Number of Households	72,289
Total Number of Families	38,609
Total Number of Households with Children under 18	17,571
Average Family Size	3.13
Average Household Size	2.36
<i>Owner-occupied</i>	<i>42.0%</i>
<i>Renter-occupied</i>	<i>58.0%</i>
Median Household Income	\$51,647

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

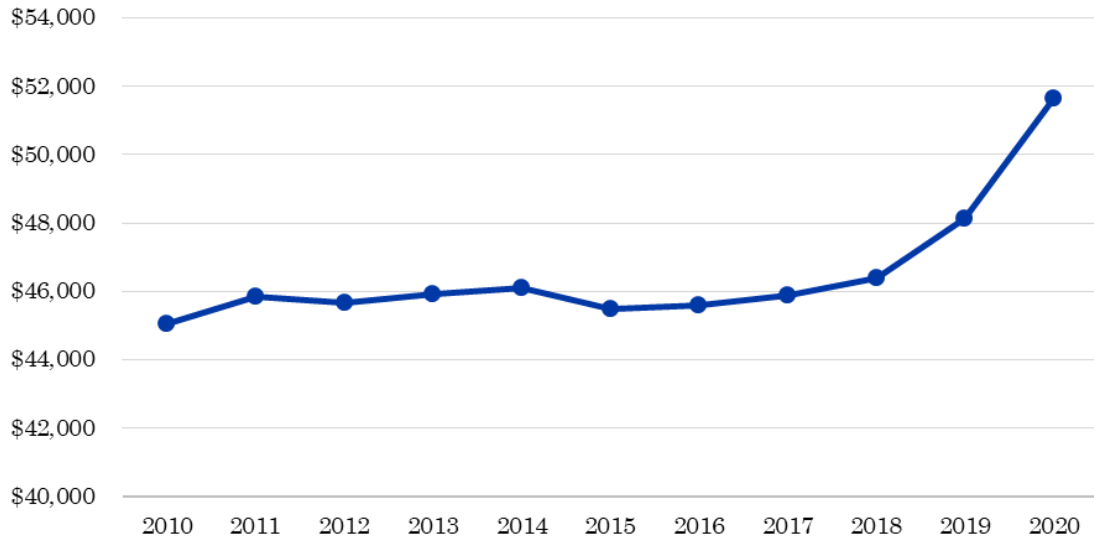
Worcester: Household Income, 2020



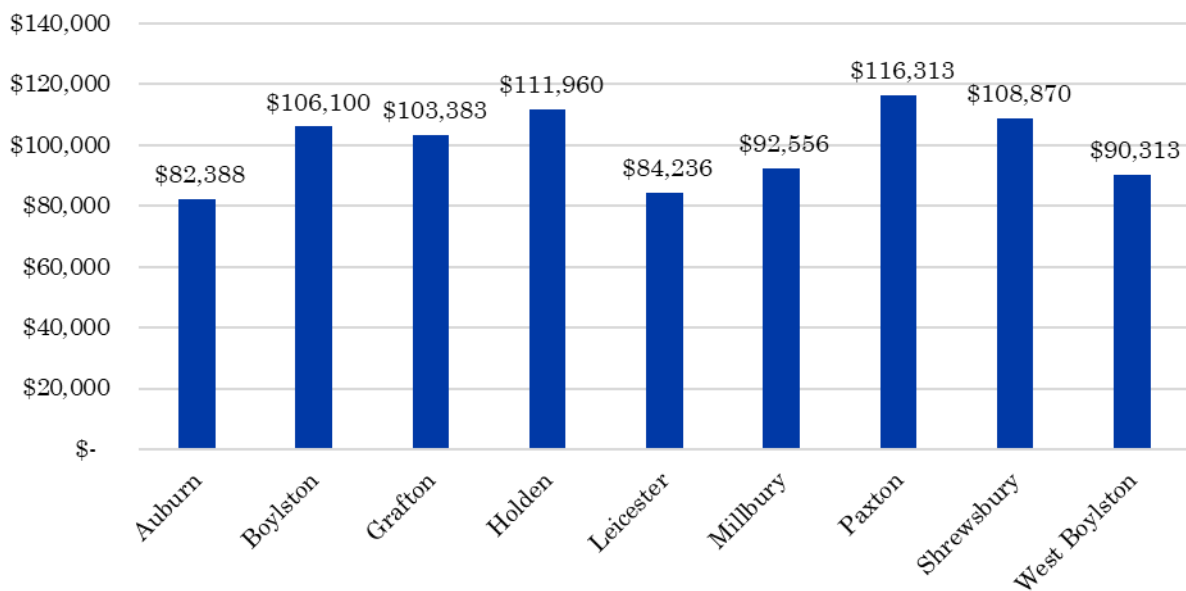
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

“Median Household Income” indicates that there are an equal number of households above and below that income level. According to the U.S. Census Bureau, the median household income in Worcester is \$51,647, the median household income of Massachusetts is \$84,385, and the median household income of the United States is \$64,994.

Income

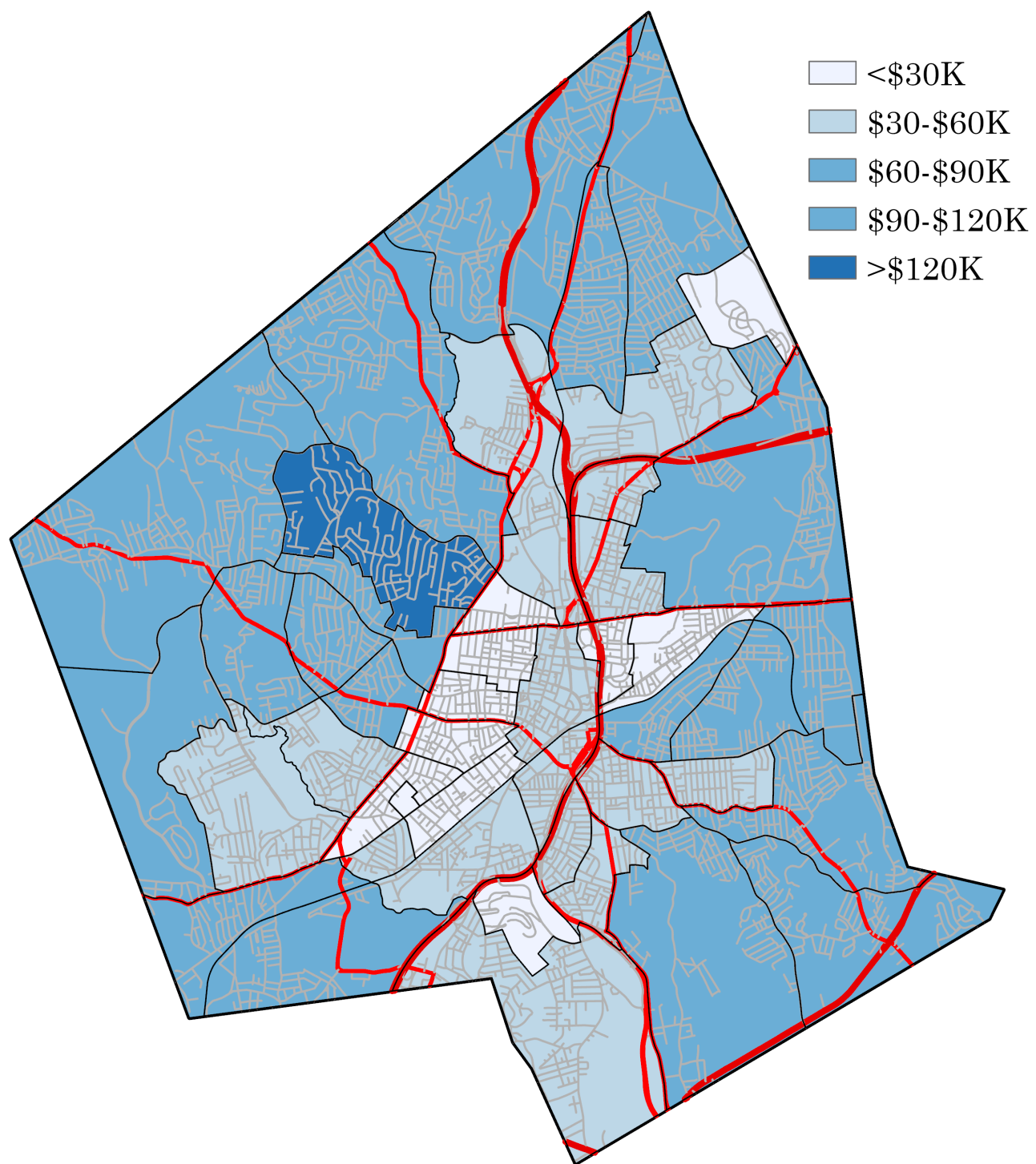
Worcester: Median Household Income, 2020


Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Greater Worcester: Median Household Income, 2020


Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Median Income by Census Tract, 2020



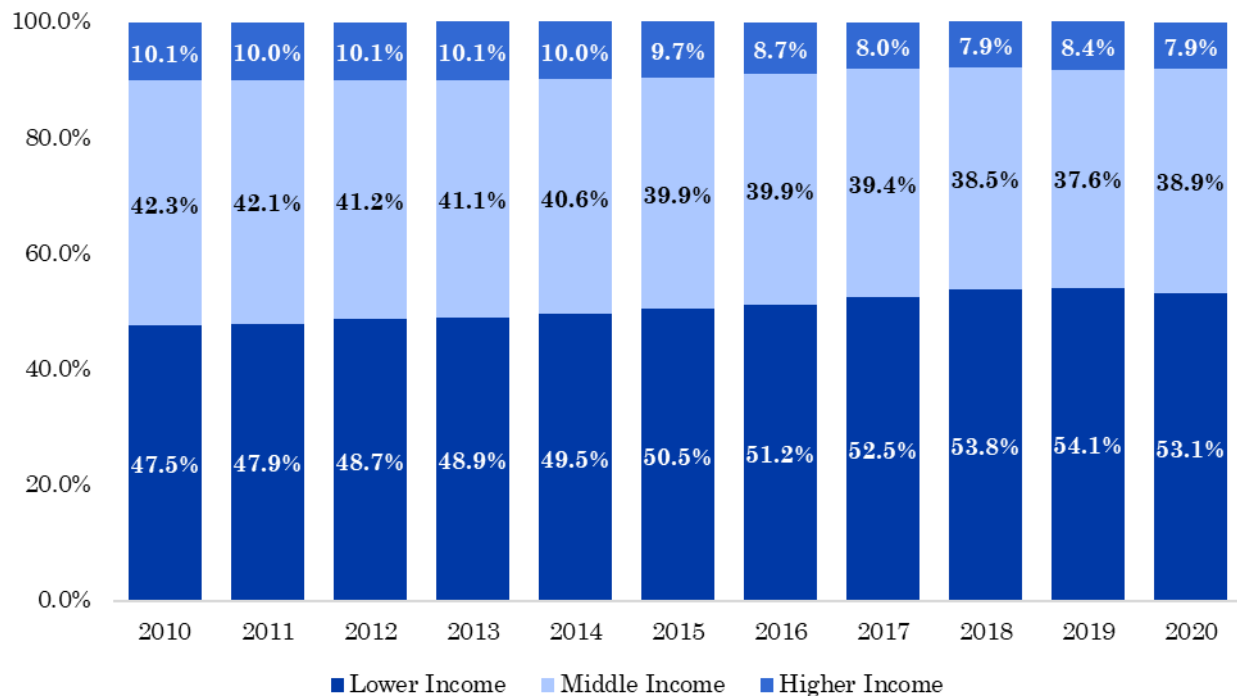
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester's Middle Income*

The Pew Research Center defines middle income, or middle class, as households between 67% to 200% of the state median income. In Massachusetts, with a median household income of \$84,385, a middle class household income would range from \$56,538 to \$168,770. The Census Bureau does not divide income groups into lower, middle, and upper income categories and its household income categories do not allow for exact determinations. However, the chart below estimates these categories, by proportionally interpolating the values of existing ranges provided by the Census, to approximate The Pew Research Center's definition of middle income for Worcester. In 2020, approximately 39% of Worcester households were in the middle income range, 53% of Worcester households were in the lower income range, and 8% of Worcester households were in the upper income range.

Income Ranges

Lower Income: \$0—\$56,538 Middle Income: \$56,539—\$168,770 Higher Income: \$168,770+

Worcester: Percent of Households by Income Level, 2010 - 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

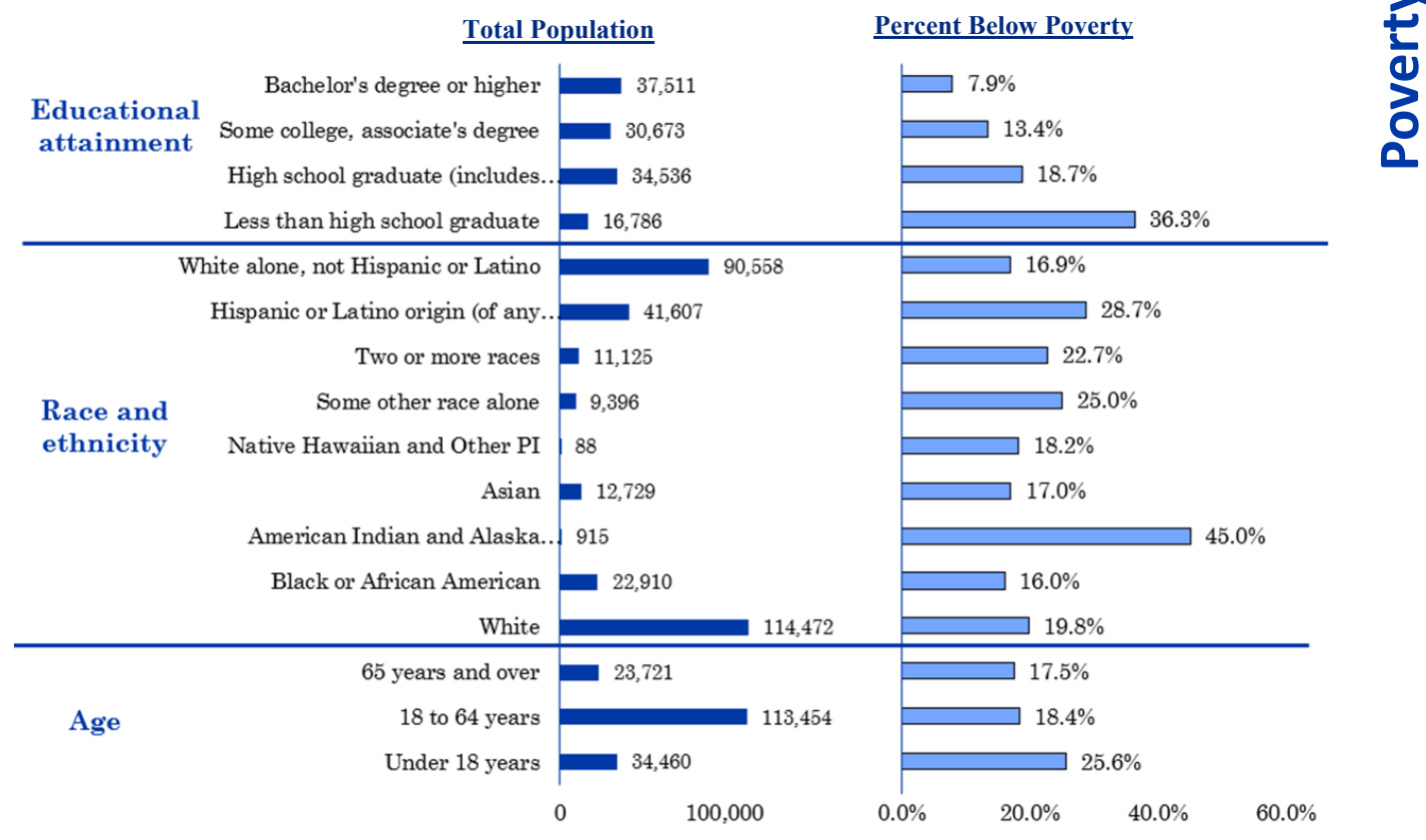
***According to Pew Research Center:**

“Middle income or middle class? The terms “middle income” and “middle class” are often used interchangeably. This is especially true among economists who typically define the middle class in terms of income or consumption. But being middle class can connote more than income, be it a college education, white-collar work, economic security, owning a home, or having certain social and political values. Class could also be a state of mind, that is, it could be a matter of self-identification (Pew Research Center, 2008, 2012). The interplay among these many factors is examined in studies by Hout (2007) and Savage et al. (2013), among others.”

Source: Pew Research Center, *Social and Demographic Trends*, <http://www.pewsocialtrends.org/2015/12/09/the-american-middle-class-is-losing-ground/>, Accessed March 2016.

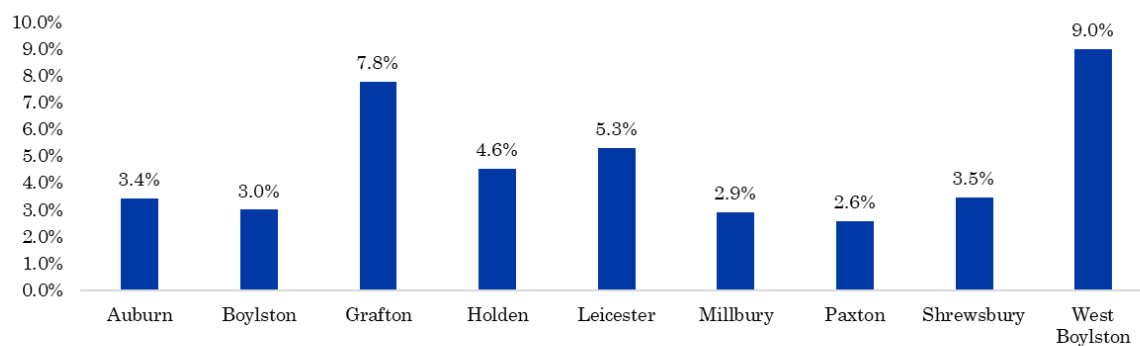
According to the U.S. Census Bureau, 19.7% of Worcester's population is below the poverty level, while 9.8% of the Massachusetts population and 12.8% of the United States population is below the poverty level.

Worcester: Poverty by Selected Characteristics, 2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

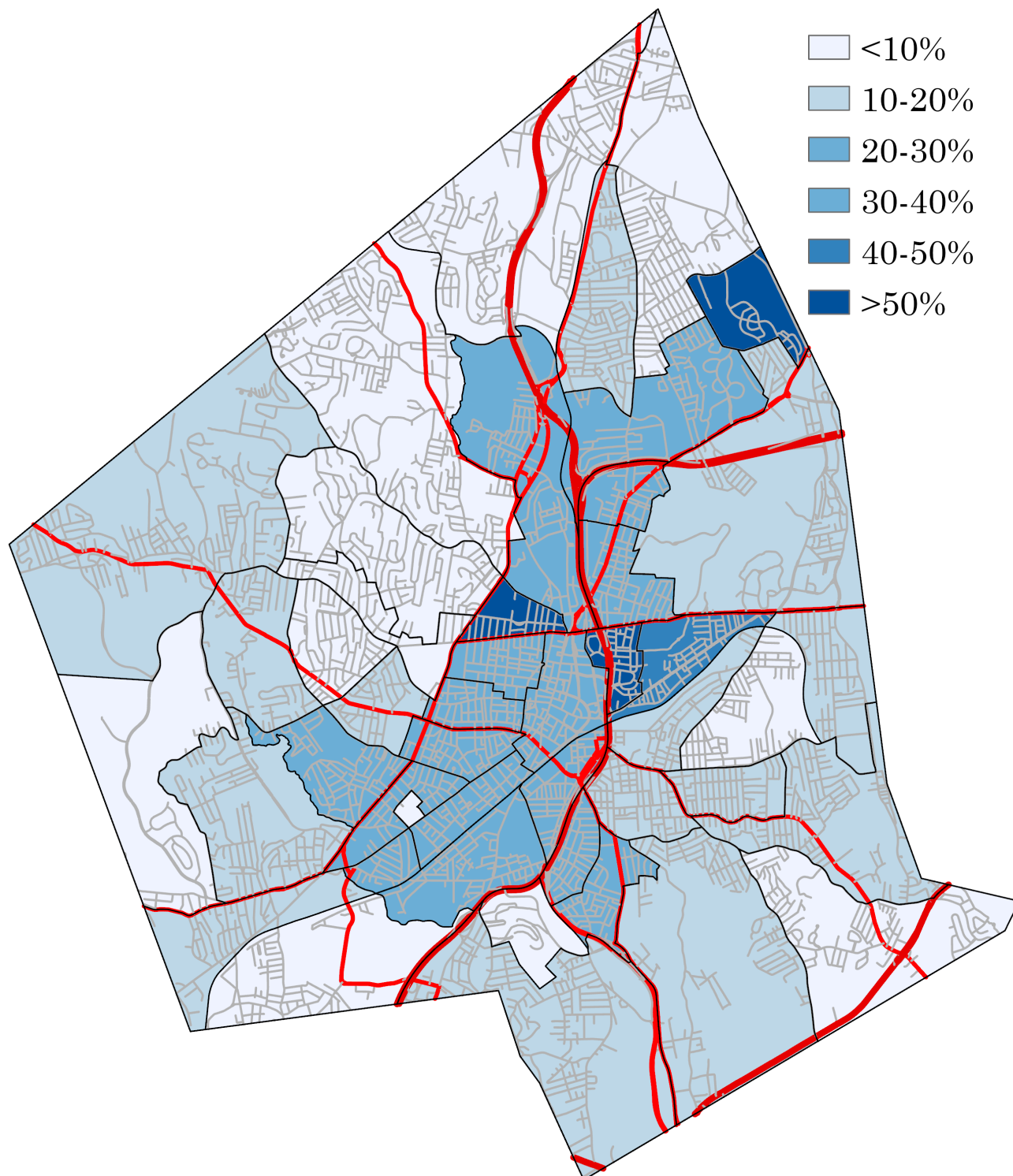
Greater Worcester: Percent in Poverty, 2020



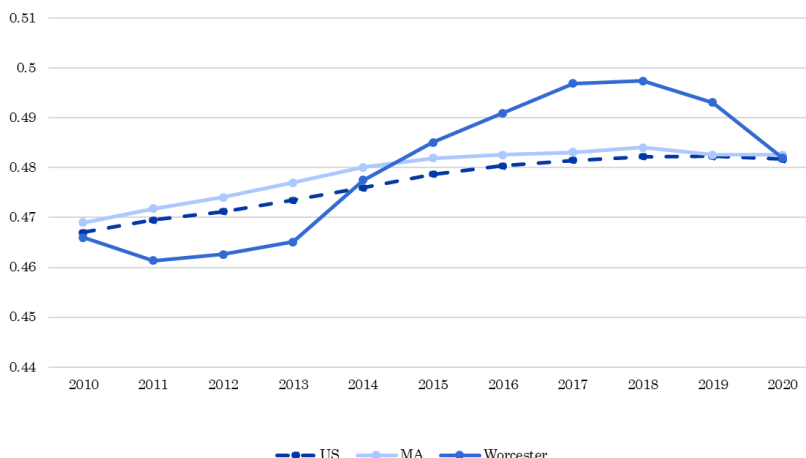
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Percent of Residents Below Poverty Level, 2020

Poverty



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Gini Index of Income Inequality, 2010-2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

*The Gini Coefficient is a measure of inequality whose values range from 0 to 1, with 0 representing perfect equality and 1 representing perfect inequality.

Worcester: Mean household income of quintiles, 2020

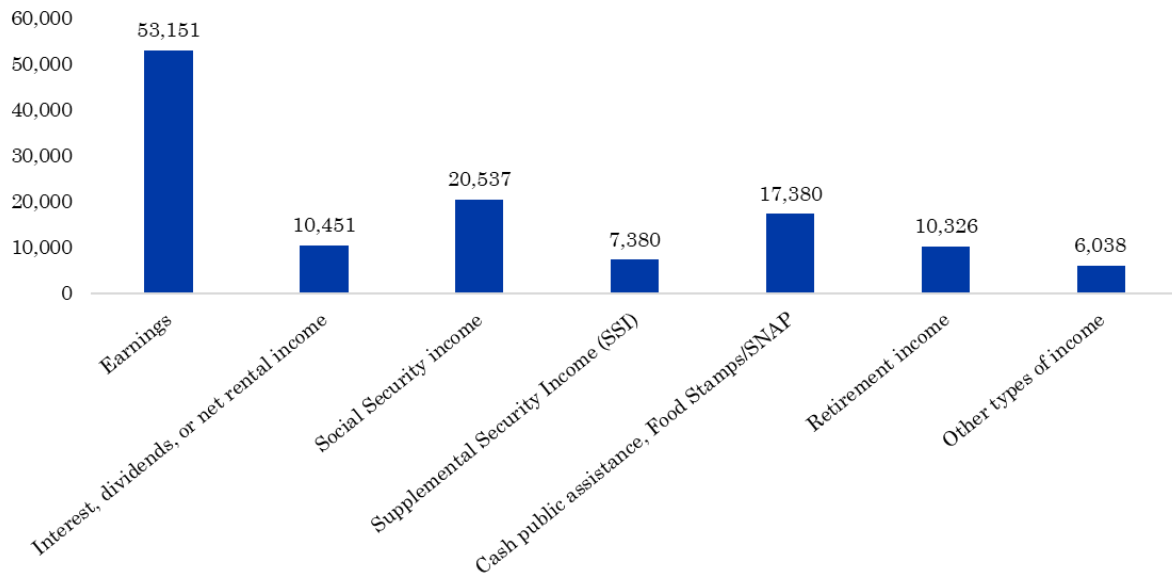
Lowest Quintile	\$9,094
Second Quintile	\$28,320
Third Quintile	\$52,101
Fourth Quintile	\$86,444
Highest Quintile	\$179,203
Top 5 Percent	\$296,201

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Shares of Aggregate Household Income by quintile, 2020

Lowest Quintile	2.56%
Second Quintile	7.97%
Third Quintile	14.67%
Fourth Quintile	24.34%
Highest Quintile	50.46%
Top 5 Percent	20.85%

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Sources of Household Income, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

In 2020, the majority of Worcester's households derive some part of their income through earnings. Other income sources included Social Security and Cash public Assistance, Food Stamps/SNAP (Supplemental Nutrition Assistance Program) benefits.

Mean usual hours worked for workers, 2020		
Worcester	Total	36.6
	Male	39.1
	Female	34.0
Massachusetts	Total	38.0
	Male	40.6
	Female	35.3
United States	Total	38.8
	Male	41.1
	Female	36.2

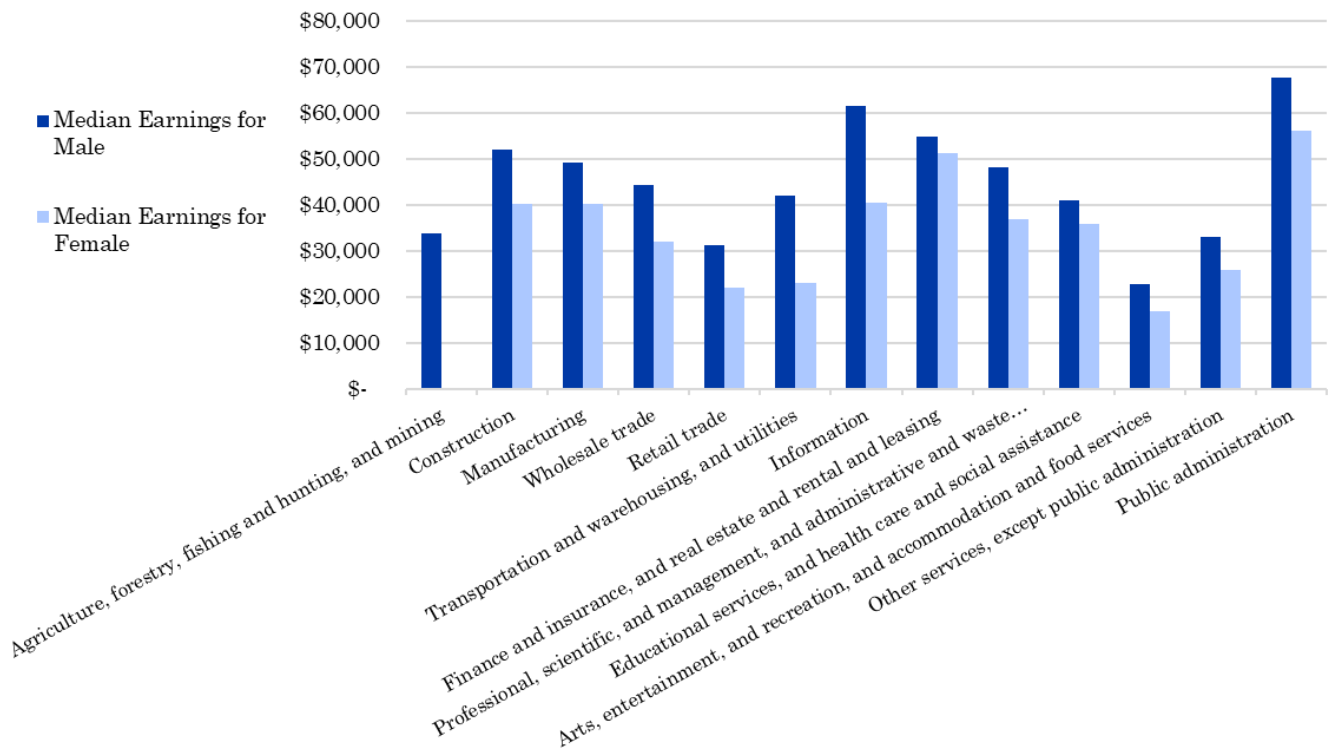
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Median age of workers 16 to 64 years, 2020		
Worcester	Total	35.9
	Male	36.0
	Female	35.8
Massachusetts	Total	39.8
	Male	39.9
	Female	39.7
United States	Total	39.7
	Male	39.6
	Female	39.7

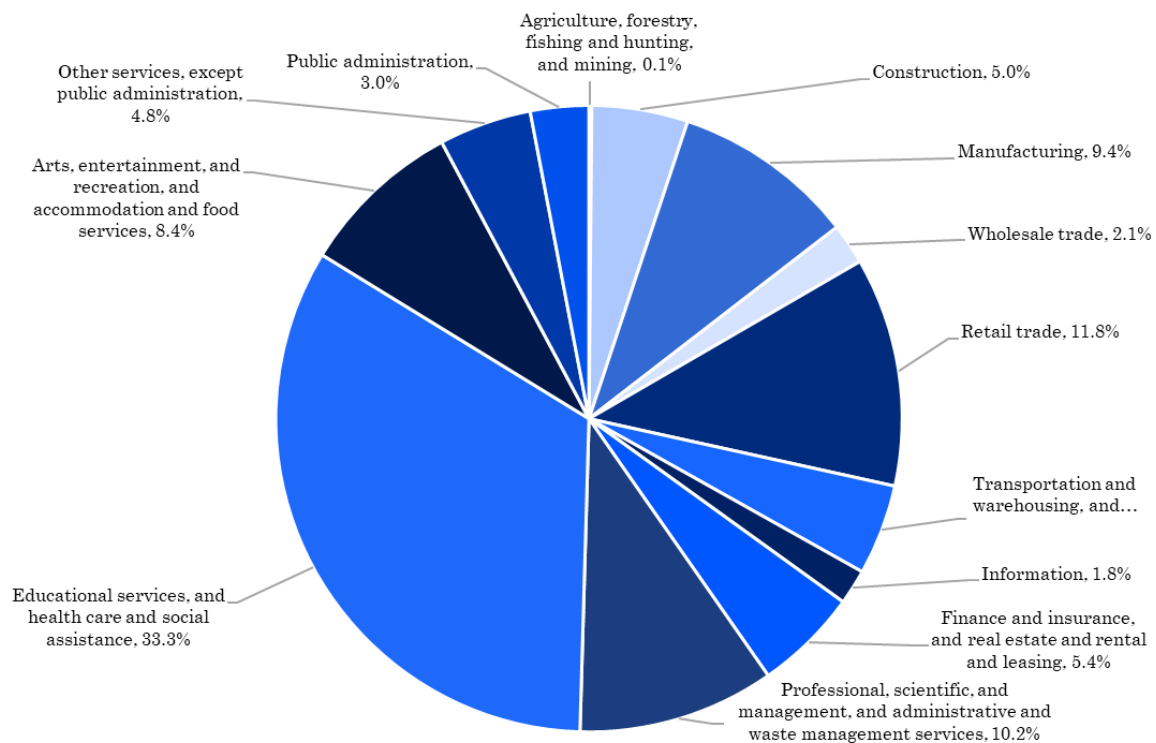
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Employment & Earnings by Industry, 2020							
Industry	Number of Employees	Percent Male	Percent Female	Median Earnings	Median Earnings for Male	Median Earnings for Female	Female Earnings as a Percent of Male
Agriculture, forestry, fishing and hunting, and mining	127	29.1%	70.9%	\$4,554	\$33,977	NA	NA
Construction	4,436	92.6%	7.4%	\$49,913	\$52,196	\$40,254	77.1%
Manufacturing	8,432	72.4%	27.6%	\$44,967	\$49,358	\$40,205	81.5%
Wholesale trade	1,880	58.8%	41.2%	\$39,405	\$44,347	\$32,152	72.5%
Retail trade	10,571	53.9%	46.1%	\$26,869	\$31,255	\$22,020	70.5%
Transportation and warehousing, and utilities	4,183	78.2%	21.8%	\$37,954	\$42,026	\$23,146	55.1%
Information	1,617	59.7%	40.3%	\$51,742	\$61,522	\$40,483	65.8%
Finance and insurance, and real estate and rental and leasing	4,798	46.1%	53.9%	\$53,777	\$55,064	\$51,361	93.3%
Professional, scientific, and management, and administrative and waste management services	9,080	64.1%	35.9%	\$45,146	\$48,294	\$36,963	76.5%
Educational services, and health care and social assistance	29,779	33.1%	66.9%	\$37,525	\$41,047	\$36,037	87.8%
Arts, entertainment, and recreation, and accommodation and food services	7,555	48.1%	51.9%	\$20,122	\$22,837	\$17,019	74.5%
Other services, except public administration	4,271	37.7%	62.3%	\$27,788	\$33,242	\$26,053	78.4%
Public administration	2,696	60.8%	39.2%	\$61,951	\$67,784	\$56,131	82.8%
Civilian employed population 16 years and over	89,425	51.5%	48.5%	\$38,602	\$43,853	\$33,744	76.9%

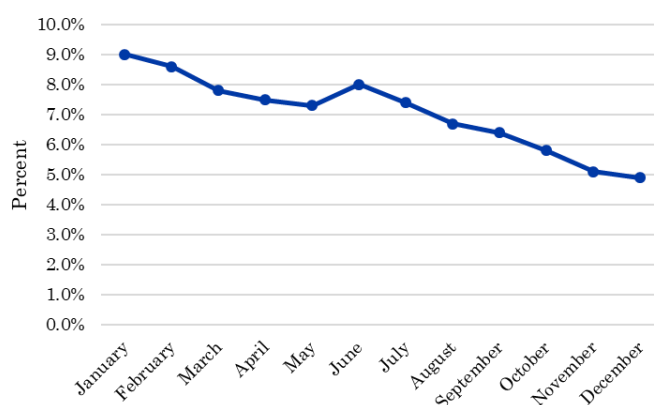
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Median Earnings for Male & Female by Industry, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Employment by Industry, 2020

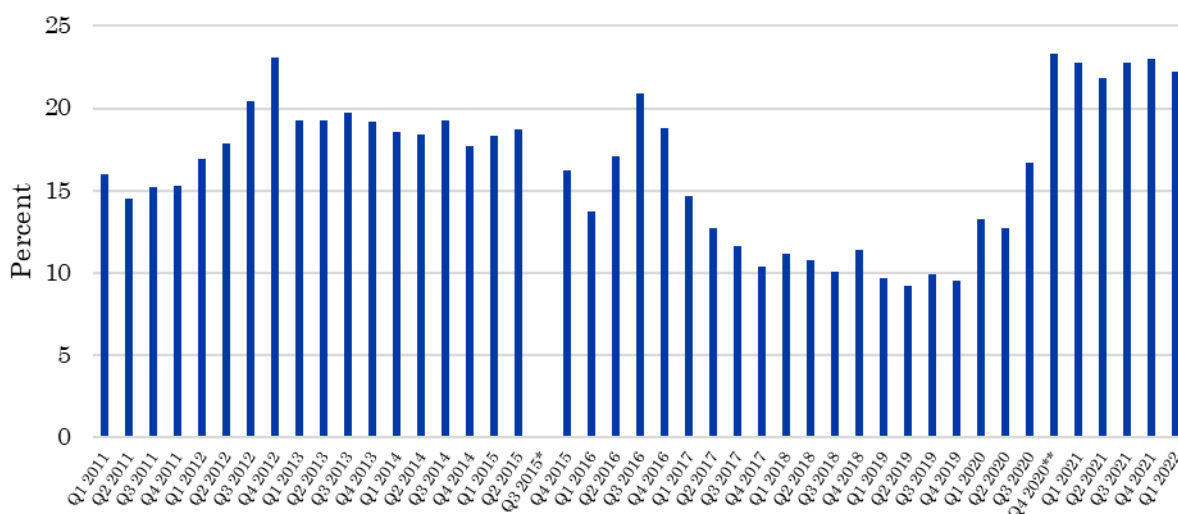
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester Metropolitan Area: Unemployment Rate, 2021

Source: Bureau of Labor Statistics.

Worcester: Office and R&D Space, 2021				
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Square Feet (SF) Supply	1,988,183	1,988,183	1,988,183	1,988,183
Direct SF Available	352,702	332,702	351,702	338,109
Sublease SF Available	100,000	100,000	100,000	119,466
Vacancy Rate%	22.77%	21.76%	22.72%	23.01%
Current Net Absorption	11,291	20,000	(20,000)	(4,873)
YTD Net Absorption	11,291	31,291	11,291	6,418

Source: Based on a survey of select properties by Colliers International.

Worcester: Quarterly Office & R&D Vacancy Rate, 2011-2022

Source: Based on a survey of select properties by Colliers International.

Colliers International completes a survey of office vacancies for Greater Boston that includes select buildings in Worcester.

*Colliers did not complete a market survey in the 3rd Quarter of 2015.

**Colliers reported that the data starting in Q4 2020 reflects adjustments made to the select properties to better represent market conditions and the market as a whole. This should be considered when making historical comparisons going forward.

Worcester: Hotels, 2021	
	Number of Rooms
AC Hotel by Marriott	170
Beechwood Hotel	73
Courtyard by Marriott Worcester	134
Hampton Inn & Suites Worcester	100
Hilton Garden Inn Worcester	199
Holiday Inn Express Worcester	96
Homewood Suites	118
Quality Inn & Suites	114
Residence Inn by Marriott	129
Total Hotel Rooms	1,133

Source: Discover Central Massachusetts.

Worcester: Hotel Market, 2021	
Occupancy	67.00%
Average Daily Rate (ADR)	\$123.46
Revenue per Available Room	\$82.66

Source: Discover Central Massachusetts.

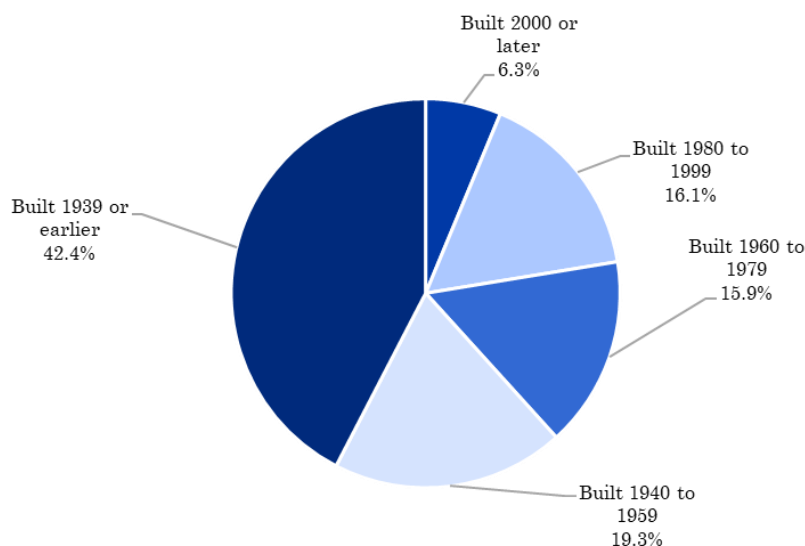
Worcester County: Hotel Market, 2021	
Occupancy	59.40%
Supply	6,225
Average Daily Rate (ADR)	\$111.17
Revenue per Available Room	\$66.06
Revenue per Available Room	\$79.24

Source: Discover Central Massachusetts.

Worcester: Housing Units, 2020		
Total Housing Units	78,258	
Occupied Housing Units	72,289	92.4%
<i>Owner occupied</i>	30,327	42.0%
<i>Renter occupied</i>	41,962	58.0%
Vacant Housing Units	5,969	7.6%
Housing Units in Multi-Unit Structures	48,120	61.5%
Homeowner vacancy rate	1.50%	
Rental vacancy rate	3.40%	

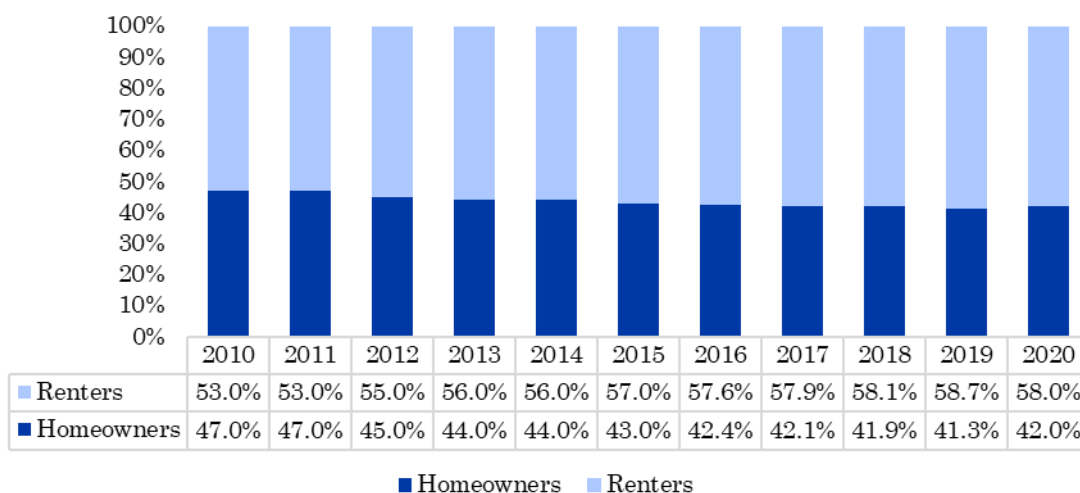
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Age of Housing Stock, 2020



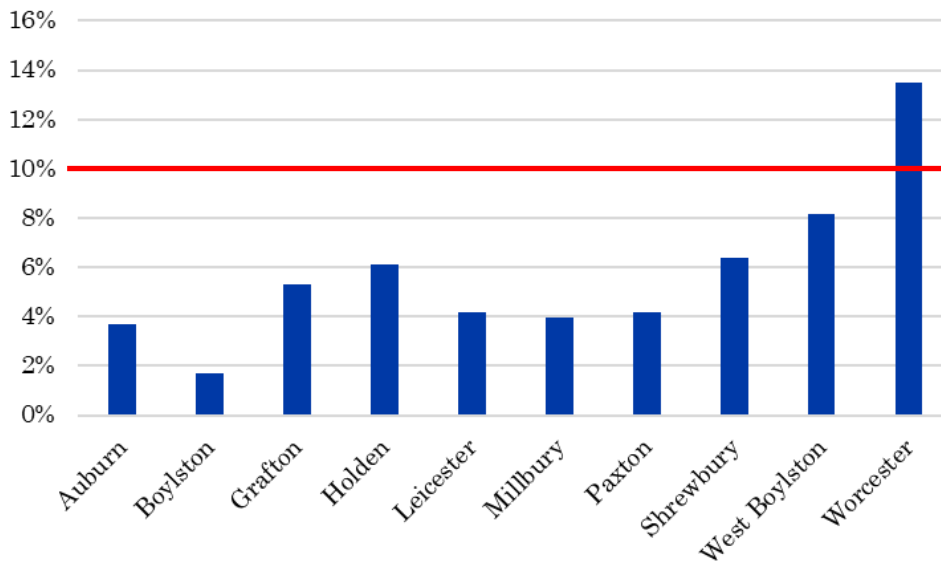
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Owner-Occupied, and Renter-Occupied as a Percent of Total Households, 2010-2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Greater Worcester: Chapter 40B Subsidized Housing Inventory

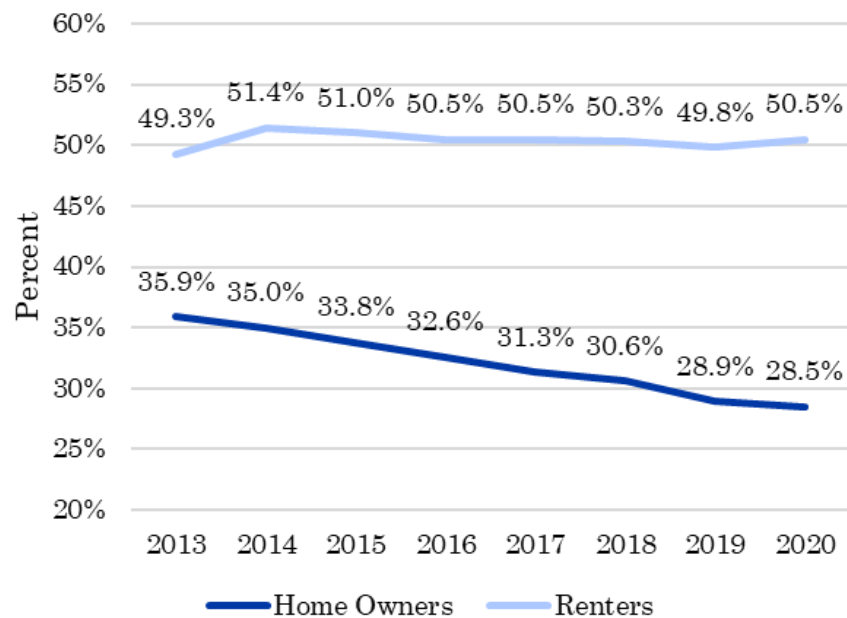


Massachusetts General Laws Chapter 40B was adopted in 1969 as part of the Massachusetts Comprehensive Permit Act to encourage and facilitate the building of affordable, long-term housing for low-income individuals and families across the Commonwealth and to ensure that low-income residents can remain in their localities if housing costs increase. The law calls on every Massachusetts community to ensure that 10% of all housing units meet certain affordability requirements.

Red line indicates 10% threshold called for under Chapter 40B.

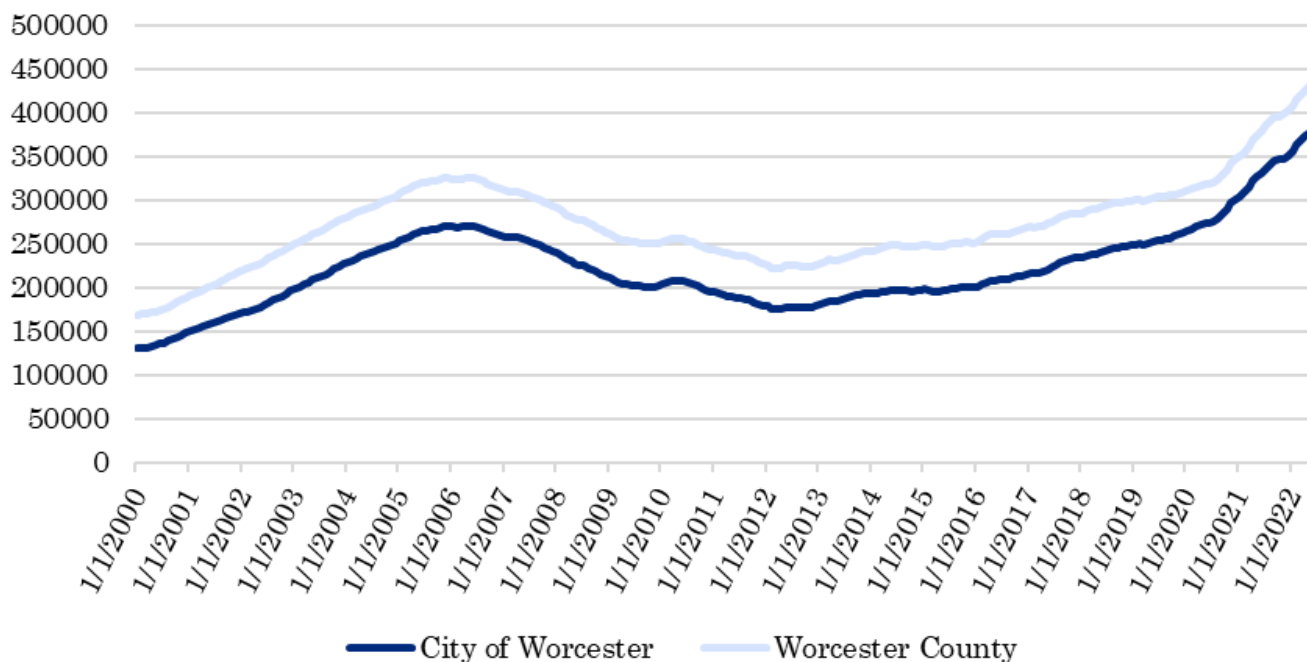
Source: Massachusetts Department of Housing & Community Development, 2010

Worcester: Percent of Households Spending 30% or More of Income on Housing, 2013-2020



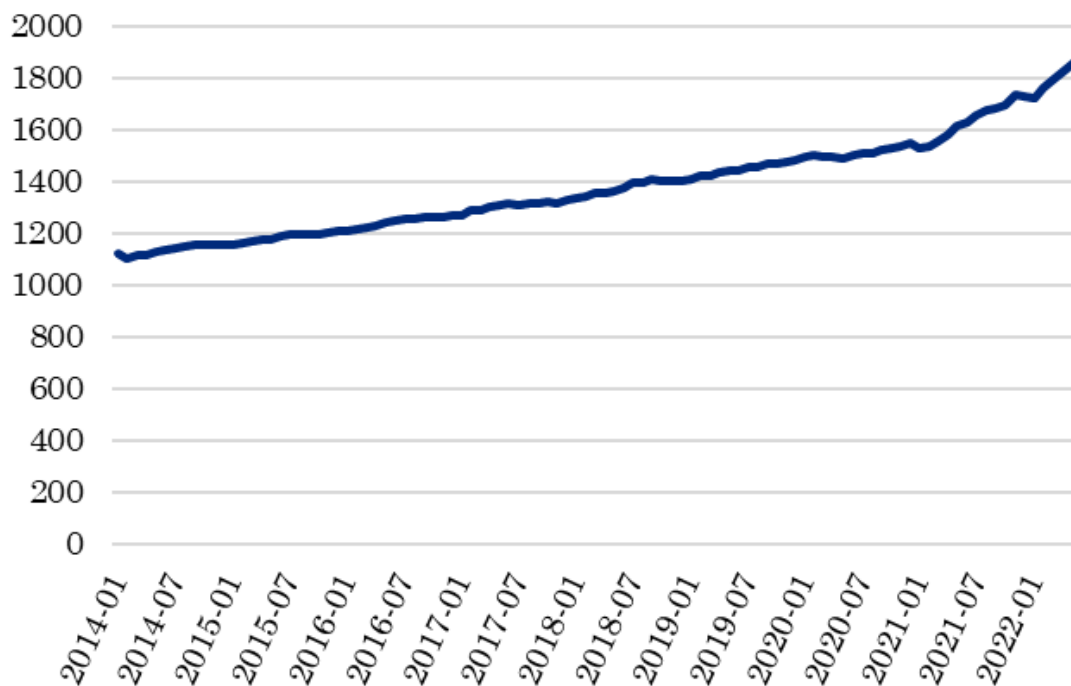
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Typical Home Value, 2000-2022



Source: Zillow Home Value Index (ZHVI)

Worcester: Typical Observed Market Rate Rent, 2014-2022



Source: Zillow Observed Rent Index (ZORI)

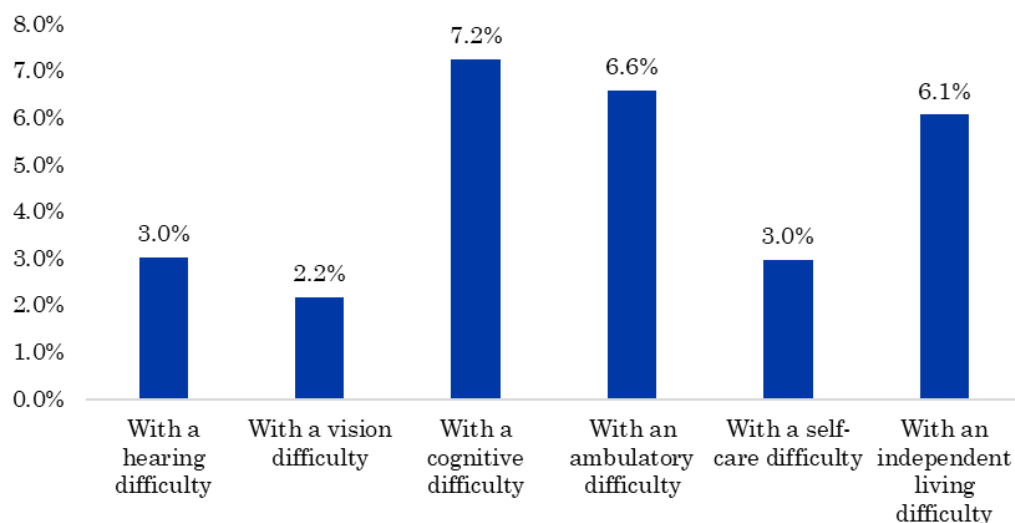
Annual City of Worcester Point-In-Time Count, January 29, 2020					
	Sheltered			Unsheltered	Total
	Emergency Shelter	Transitional	Safe Haven		
Total Homeless	862	339	11	189	1401
Chronically Homeless	99	0	11	59	169
<i>Age</i>					
# under age 18	395	74	0	3	472
# ages 18-24	52	62	0	12	126
# ages 24 and older	415	203	11	174	803
<i>Gender</i>					
Female	474	132	3	65	674
Male	387	202	8	123	720
Transgender	1	5	0	0	6
Gender Non-Conforming (i.e. not exclusively male or female)	0	0	0	1	1
<i>Race</i>					
White	622	261	5	171	1059
Black or African American	206	69	4	14	293
Asian	9	1	2	2	14
American Indian or Alaska Native	6	0	0	0	6
Native Hawaiian or Other Pacific Islander	1	1	0	0	2
Multiple Races	18	7	0	2	27
<i>Ethnicity</i>					
Non-Hispanic/Non-Latino	493	202	11	139	845
Hispanic/Latino	369	137	0	50	556

Source: Central Massachusetts Housing Alliance.

Worcester: Veterans, 2020			
Number of Veterans	6,529	Period of Service	
Veterans as % of Population 18 and Older	4.4%	Gulf War (September 2001 or later)	1,155
% of Veterans - Male	90.8%	Gulf War (August 1990 to August 2001)	952
% of Veterans - Female	9.2%	Vietnam era	2,295
% of Veterans - Disabled	31.1%	Korean War	431
% of Veterans - Below the Poverty Line	11.1%	World War II	277

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

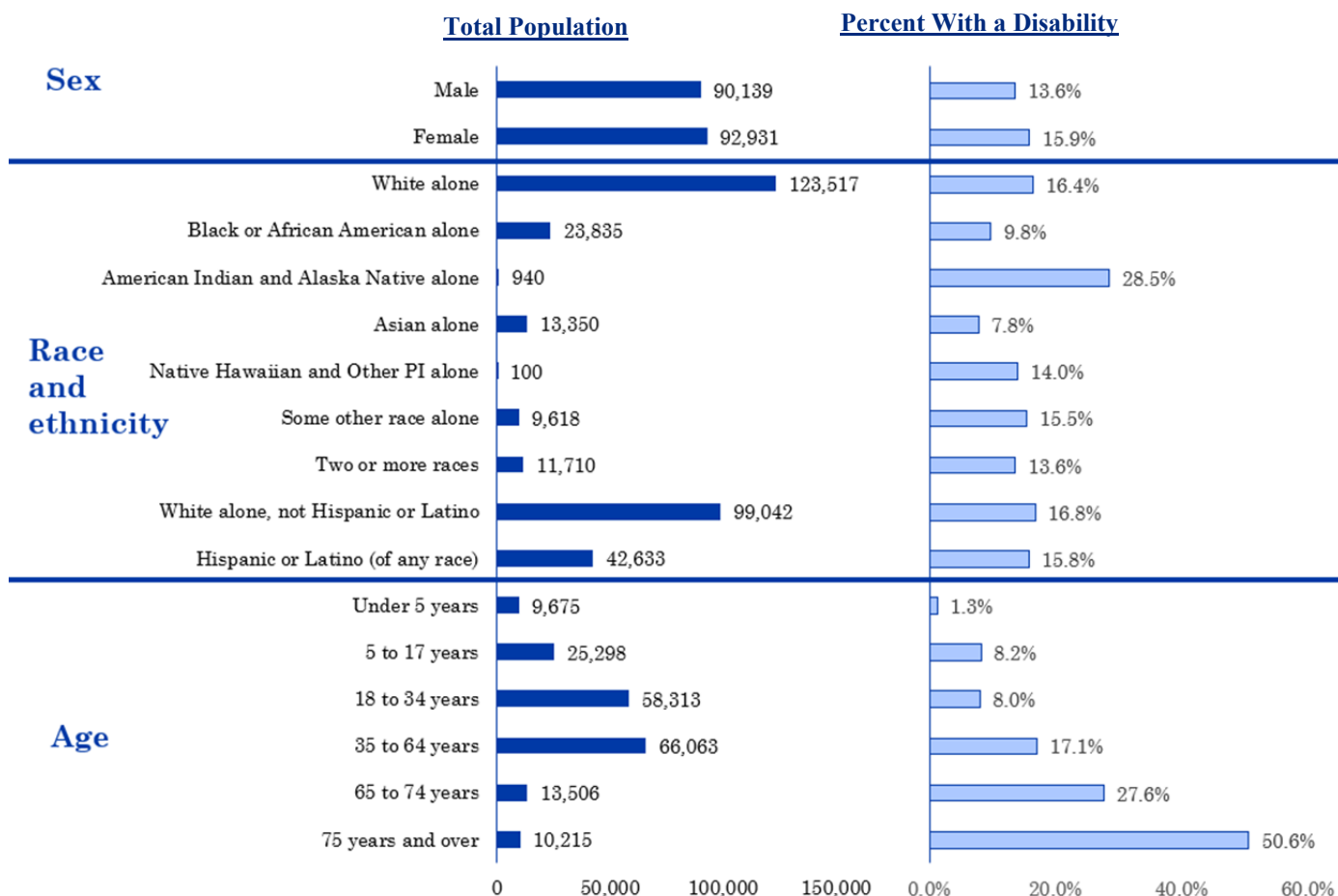
Worcester: Disability, 2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Disability

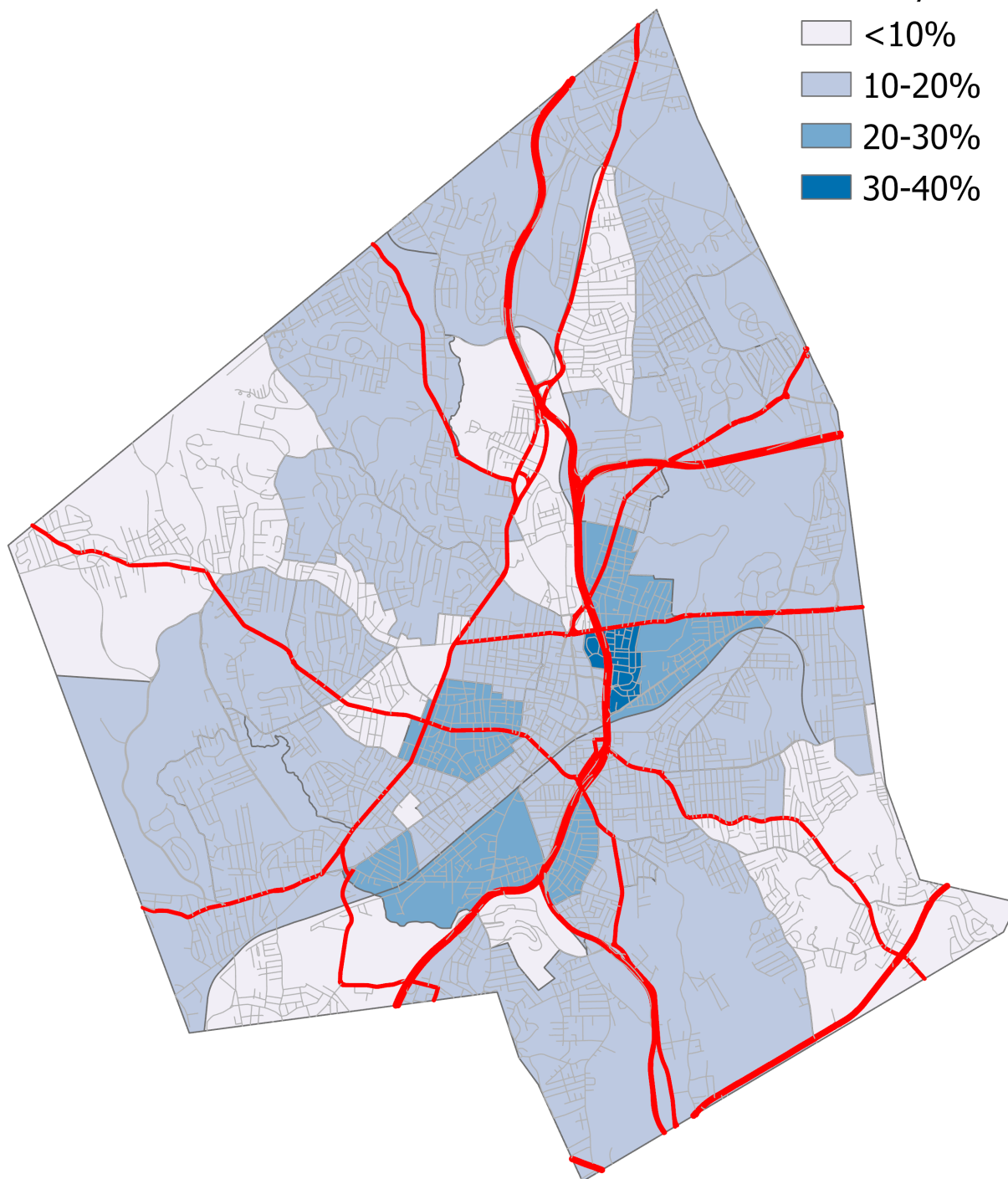
Worcester: Disability by Selected Characteristics, 2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Percent of Residents with a Disability, 2020

Disability

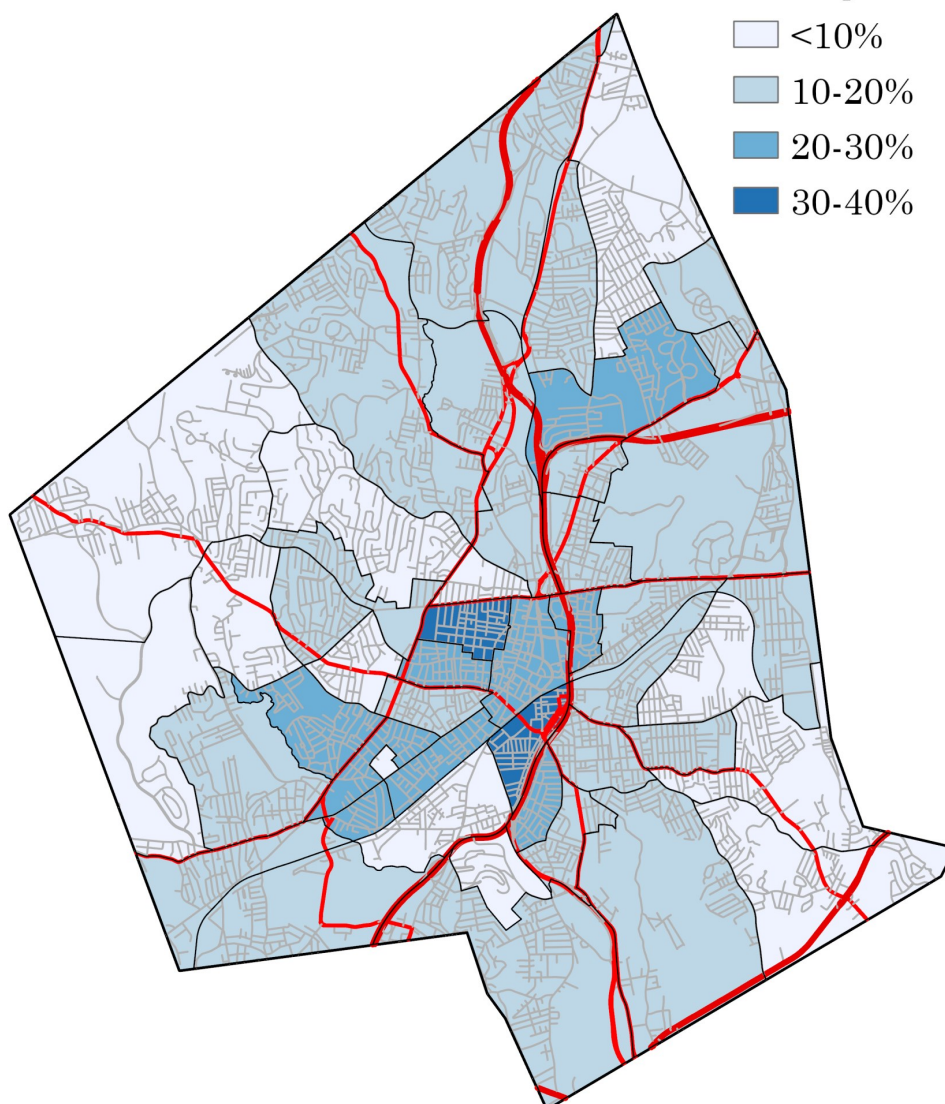


Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Household Internet Access Metrics, 2020	
With an Internet Subscription	83.6%
Broadband of any type	83.3%
Cellular Data Plan	75.7%
Satellite Internet Service	2.7%
Dial-up with no other subscription	0.4%
No Internet Access	16.4%

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Percent of Households with No Internet Access, 2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Household Internet Access Details, 2020

	Total	With a computer				No computer in household	Percent no computer in household
		Broadband Internet Subscription	Percent Broadband Internet Subscription	Without an Internet Subscription	Percent Without an Internet Subscription		
Total population in households	170,450	150,949	88.6%	9,053	5.3%	10,088	5.9%
Age							
Under 18 years	34,845	32,968	94.6%	1,500	4.3%	377	1.1%
18 to 64 years	112,124	102,079	91.0%	6,059	5.4%	3,852	3.4%
65 years and over	23,481	15,902	67.7%	1,494	6.4%	5,859	25.0%
Race							
White alone	113,499	99,319	87.5%	5,589	4.9%	8,309	7.3%
Black or African American alone	22,765	20,764	91.2%	1,379	6.1%	549	2.4%
American Indian and Alaska Native alone	915	734	80.2%	18	2.0%	163	17.8%
Asian alone	12,719	12,003	94.4%	562	4.4%	154	1.2%
Native Hawaiian and Other Pacific Islander alone	81	74	91.4%	7	8.6%	0	0.0%
Some other race alone	9,355	8,179	87.4%	766	8.2%	410	4.4%
Two or more races	11,116	9,876	88.8%	732	6.6%	503	4.5%
Ethnicity							
Hispanic or Latino origin (of any race)	41,347	35,708	86.4%	3,234	7.8%	2,405	5.8%
White alone, not Hispanic or Latino	89,734	78,774	87.8%	3,836	4.3%	6,842	7.6%

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Household Internet Access Details Continued, 2020

	Total	With a computer				No computer in household	Percent no computer in household
		Broadband Internet Subscription	Percent Broadband Internet Subscription	Without an Internet Subscription	Percent Without an Internet Subscription		
<i>Total population in households</i>	170,450	150,949	88.6%	9,053	5.3%	10,088	5.9%
Educational Attainment							
Household population 25 years and over	118,041	101,300	85.8%	6,802	5.8%	9,626	8.2%
Less than high school graduate or equivalency	16,387	11,695	71.4%	1,614	9.8%	3,052	18.6%
High school graduate (includes equivalency, some college or associate's degree)	64,298	54,679	85.0%	3,937	6.1%	5,575	8.7%
Bachelor's degree or higher	37,356	34,926	93.5%	1,251	3.3%	999	2.7%
Employment Status							
Civilian population 16 years and over	139,285	121,529	87.3%	7,651	5.5%	9,745	7.0%
In labor force	88,609	82,300	92.9%	4,229	4.8%	1,919	2.2%
Employed	84,154	78,278	93.0%	3,885	4.6%	1,836	2.2%
Unemployed	4,455	4,022	90.3%	344	7.7%	83	1.9%
Not in labor force	50,676	39,229	77.4%	3,422	6.8%	7,826	15.4%

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.



Health

Worcester: Vital Statistics, 2021

Births*	6,322
Deaths	3,457
Marriages	1,028

*All births in Worcester, regardless of Mother's residency.

Source: City of Worcester Clerk's Office.

**Worcester: Number of Beds -
Licensed or Certified Health Care Facilities, March 2022**

Acute Hospitals	1,095
Hospice Inpatient Satellite	10
Non-Acute Hospitals	390
Nursing Homes	2082
Renal Dialysis	86
Rest Home	325
Satellite Inpatient Unit	26

Source: Massachusetts Department of Public Health.

Worcester: Uninsured, 2020

	Worcester City		Worcester County		Massachusetts	
	Number	Percent	Number	Percent	Number	Percent
Uninsured	5,181	2.8%	19,087	2.30%	185,687	2.7%

*Non-institutionalized population.

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

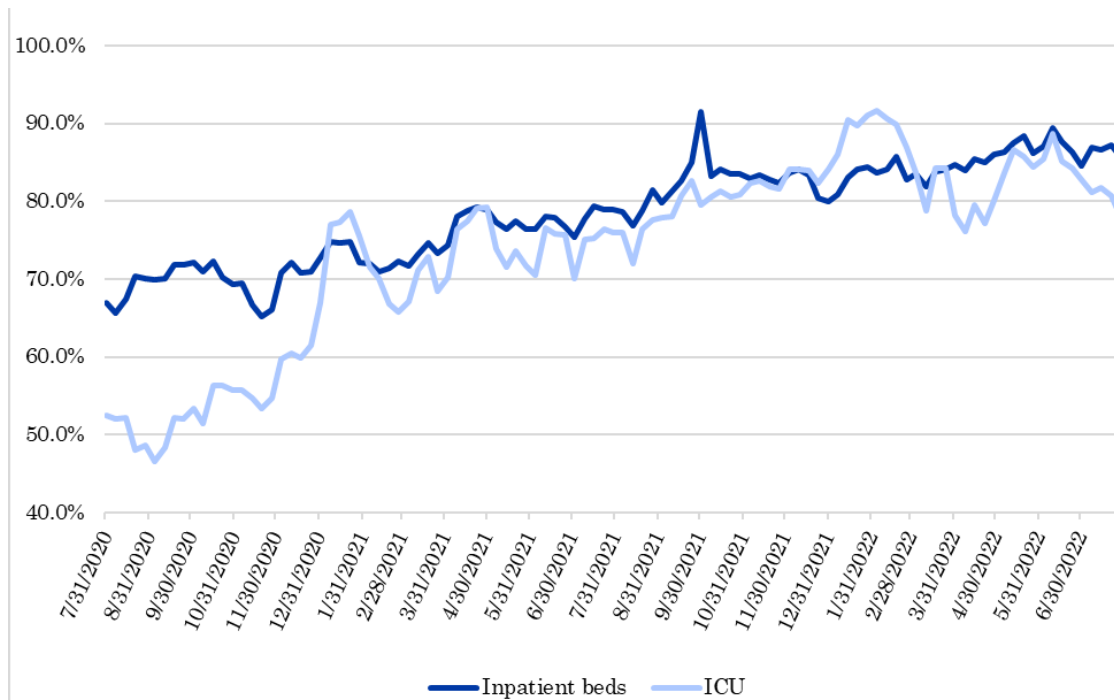
Worcester: National Institutes of Health Funding, 2021

CG Scientific, Inc.	1 awards	\$ 749,988
Enrich Therapeutics, Inc.	1 award	\$ 829,125
Microbiotix, Inc.	10 awards	\$ 6,966,418
Mustang Bio, Inc.	1 award	\$ 999,336
University of Massachusetts Medical School	358 awards	\$170,455,068
Worcester Polytechnic Institute	13 awards	\$ 4,132,408
Zata Pharmaceuticals, Inc.	2 award	\$ 1,886,885
Total	386 awards	\$186,019,228

Source: National Institutes of Health.

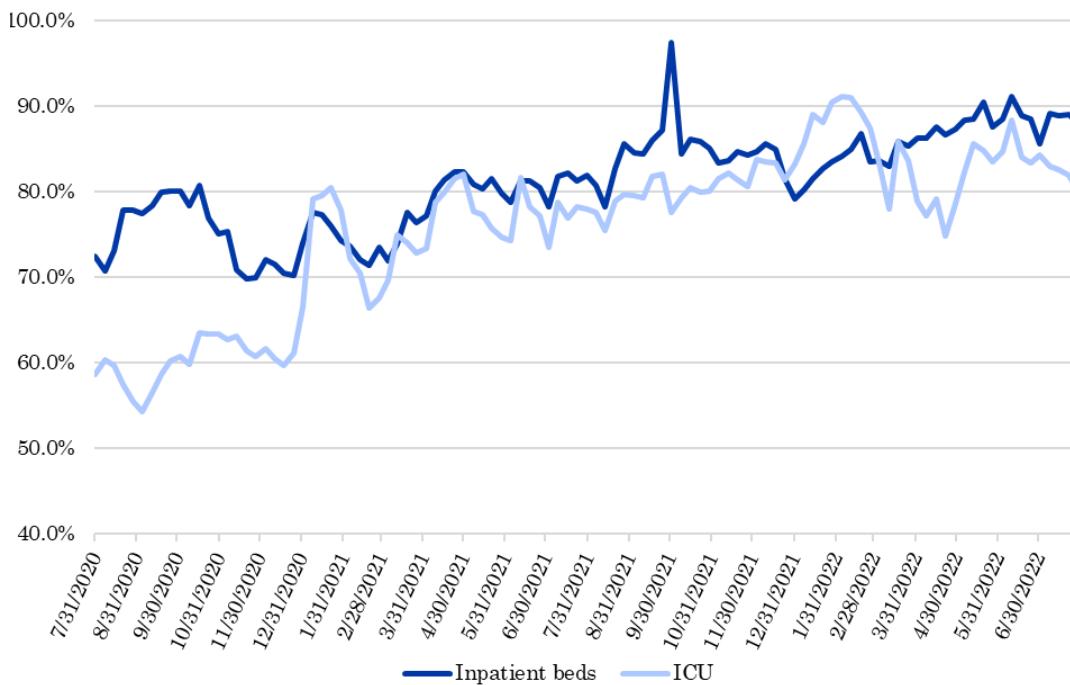
Beds

Worcester County: Percent of Inpatient and ICU Beds Used, 2020-2022



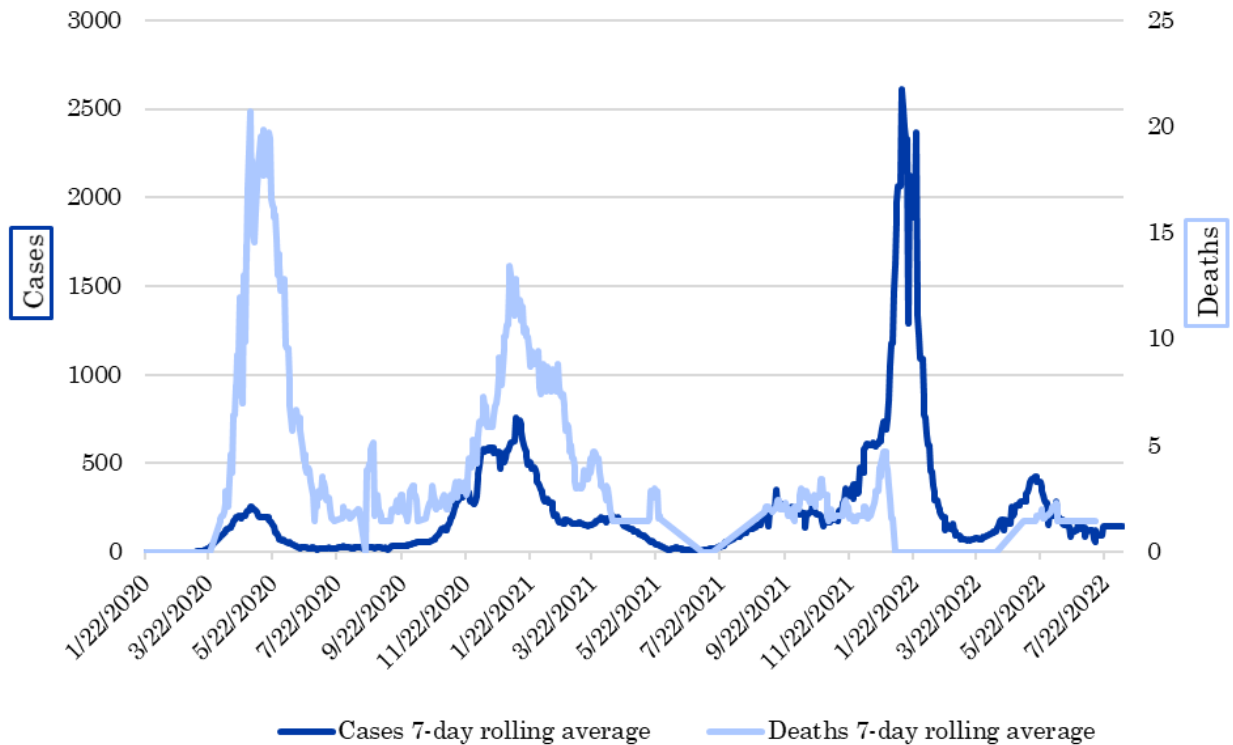
Source: Center for Disease Control

Worcester City: Percent of Inpatient and ICU Beds Used, 2020-2022



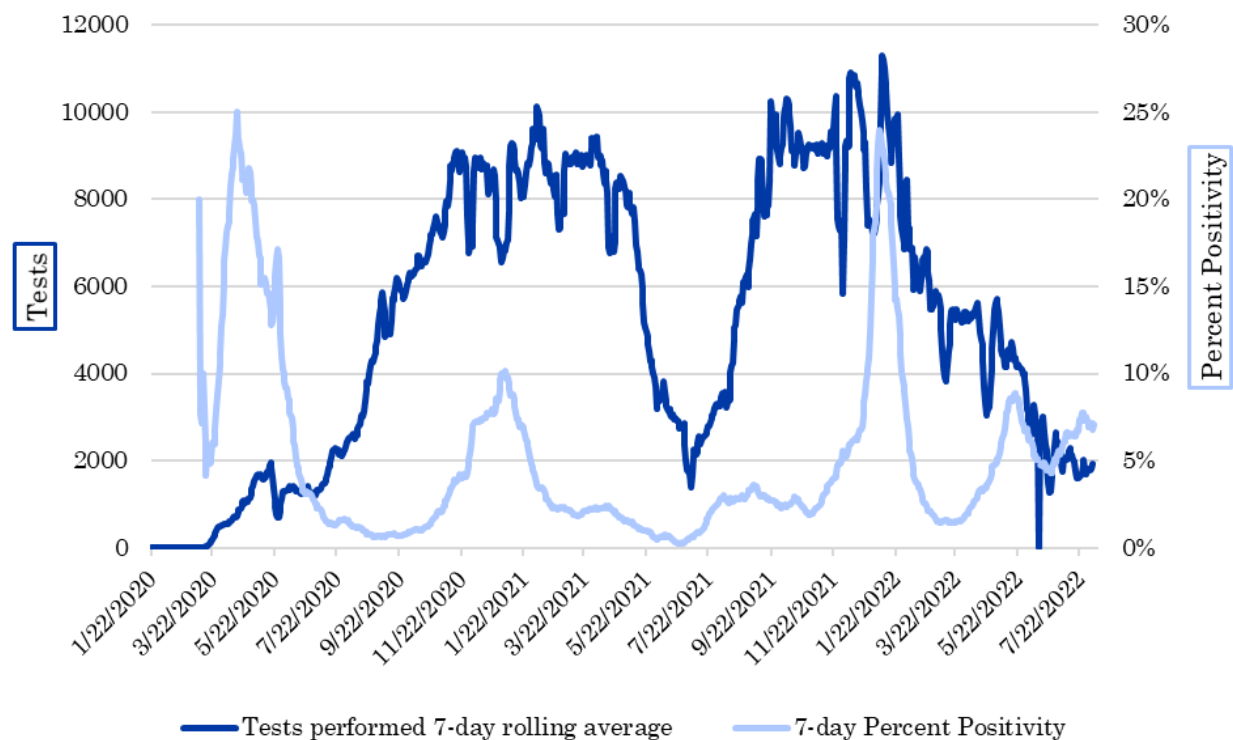
Source: Center for Disease Control

Worcester County: COVID-19 Cases and Deaths



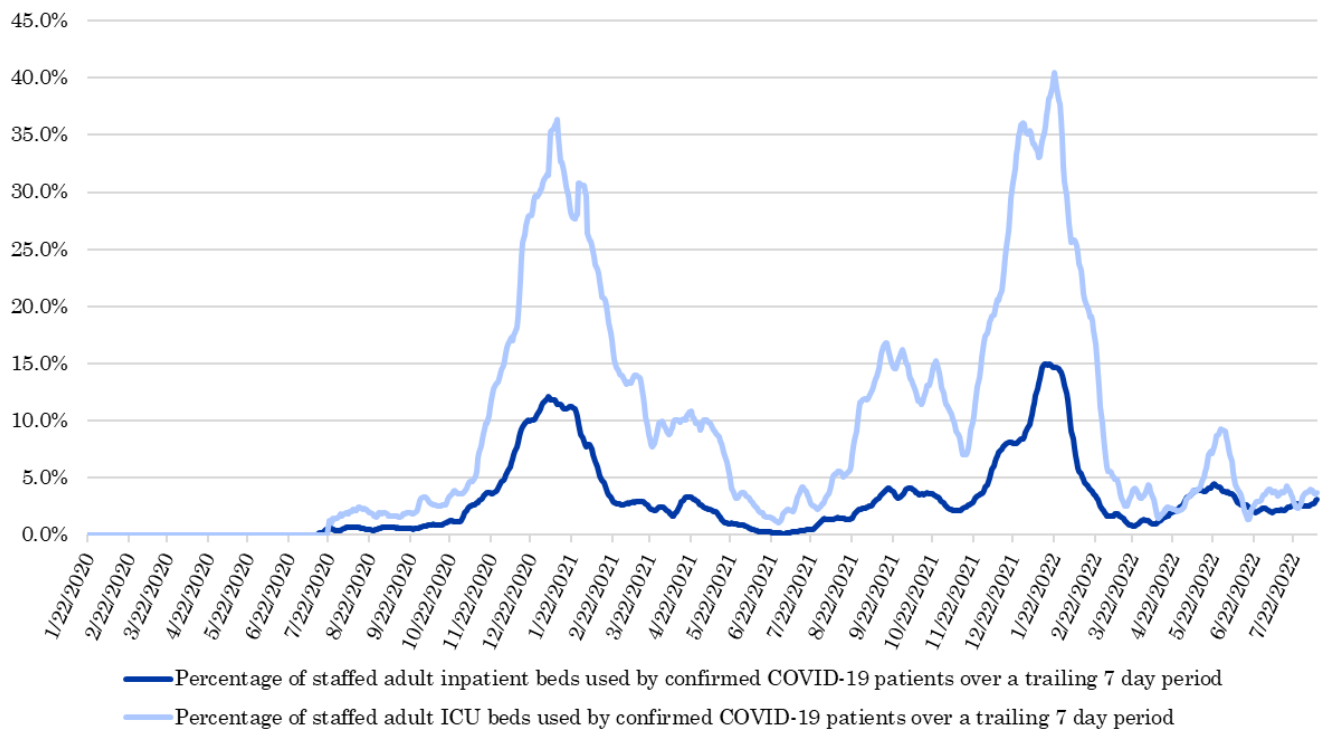
Source: Center for Disease Control

Worcester County: COVID-19 Tests and Positivity



Source: Center for Disease Control

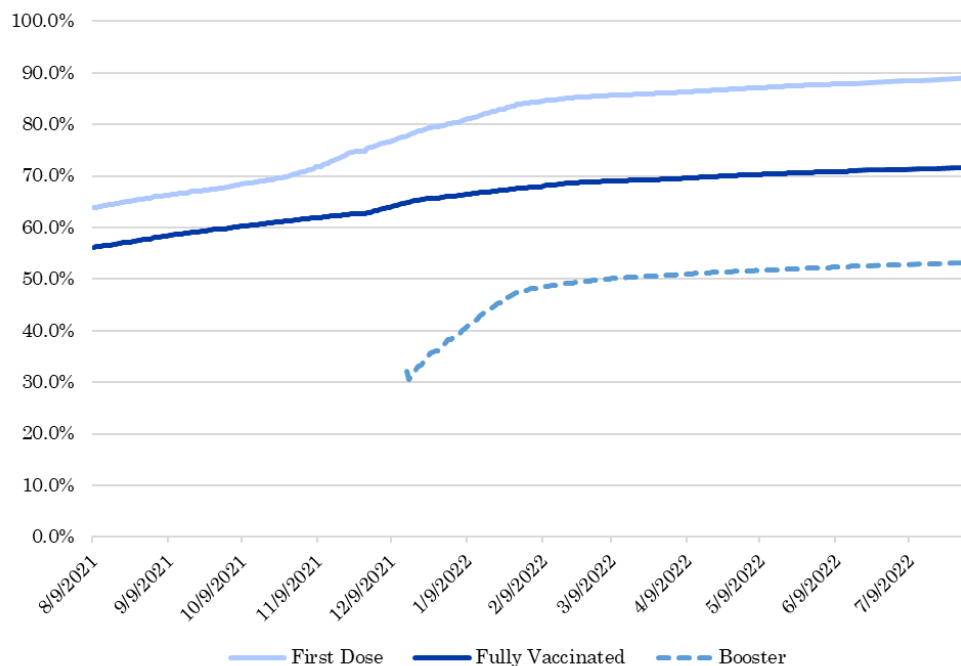
Worcester County: Inpatient and ICU Beds Used by Confirmed COVID-19 Patients, 2020-2022



Source: Center for Disease Control

Note: The remaining beds may be occupied by patients with other health concerns or are unoccupied.

Worcester County: Percent Vaccinated for COVID-19, 2020-2022



Source: Center for Disease Control

**Greater Worcester: Number of Confirmed Opioid Related Overdose Deaths, 2015-2021
(by town of residence for deceased)**

	2015	2016	2017	2018	2019	2020	2021
Auburn	4	2	4	6	4	3	4
Boylston	2	0	1	1	1	1	1
Grafton	2	1	0	3	6	2	2
Holden	4	5	1	3	1	2	3
Leicester	2	2	4	6	4	5	3
Millbury	4	4	7	7	8	6	2
Paxton	1	0	0	1	1	2	1
Shrewsbury	2	7	8	7	6	4	3
West Boylston	0	1	3	4	2	1	1
Worcester	84	77	86	99	81	103	105

Source: Massachusetts Department of Public Health.

**Greater Worcester: Number of Confirmed Opioid Related Overdose Deaths, 2015-2021
(by location of incident)**

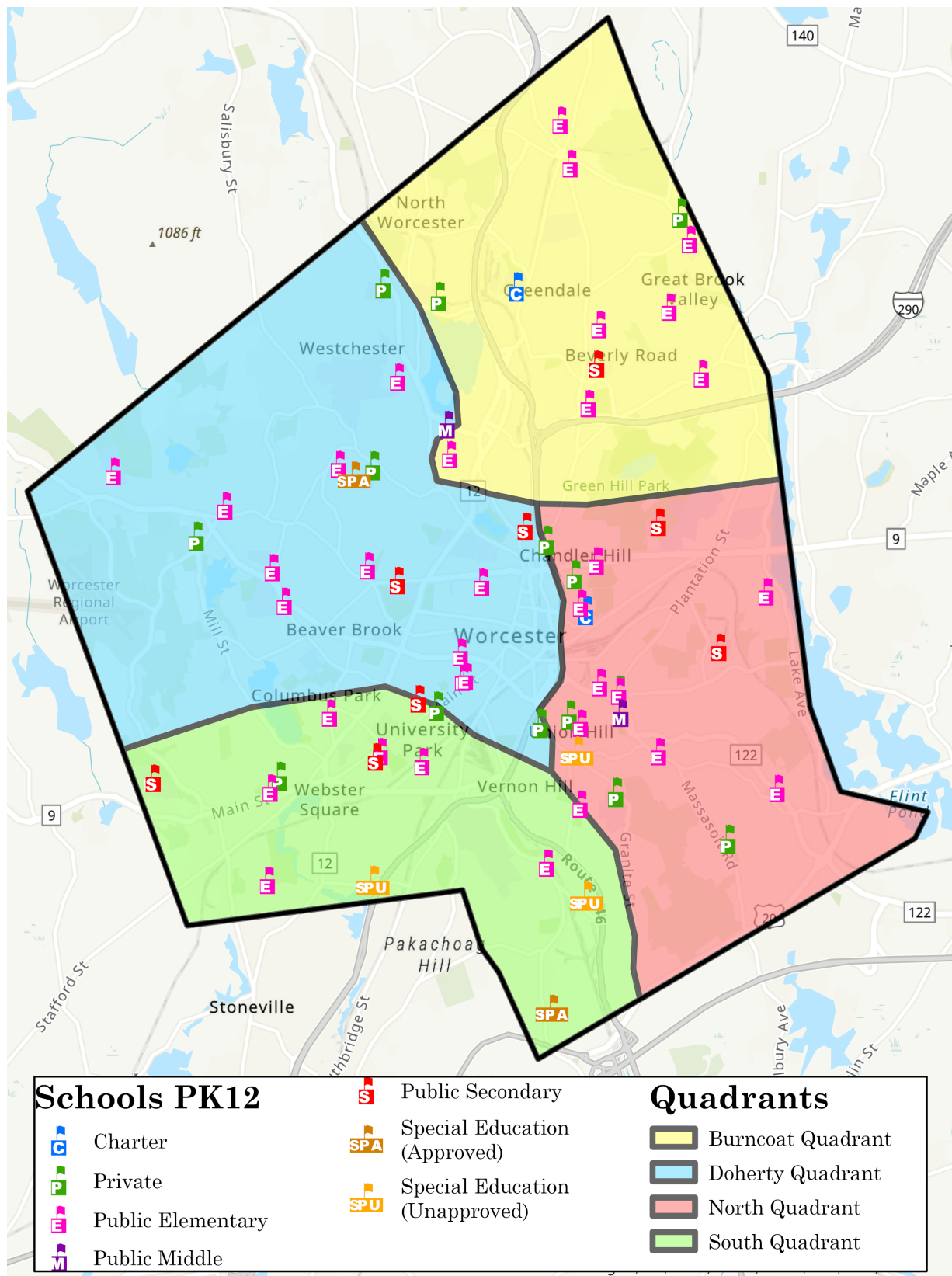
	2015	2016	2017	2018	2019	2020	2021
Auburn	1	0	1	1	0	1	3
Boylston	1	0	0	0	0	0	1
Grafton	2	0	0	2	3	0	1
Holden	1	2	0	1	2	1	1
Leicester	1	1	2	2	1	2	2
Millbury	1	3	2	3	4	3	2
Paxton	0	0	0	0	1	2	0
Shrewsbury	1	3	7	5	2	5	7
West Boylston	0	2	2	1	1	0	1
Worcester	122	112	123	135	144	132	123

Source: Massachusetts Department of Public Health.



Education

Worcester Public School District: Quadrants



Source: MassGIS (Bureau of Geographic Information).

Worcester Regional Research Bureau

A STRATEGIC PLAN FOR EDUCATION IN WORCESTER

AN OVERVIEW

2018-2023



Culture of Innovation

All students will have access to high quality learning experiences which leverage effective approaches



Academic Excellence

All students will have access to rigorous and personalized learning supported by technology



Welcoming Schools

All students will gain a holistic set of skills and be supported by a network—inclusive of their families and the community—to realize their personal, academic, and professional goals



Investing in Educators

All students will be supported by effective educators who demonstrate leadership and commitment to enhancing student learning and development



Technology & Operations

All students will learn in an efficient and fiscally sound district

Where We're Headed

WPS STUDENTS WILL

Current		2023
31%	➡	47%
MEET/EXCEED EXPECTATIONS ON 3RD GRADE ELA MCAS		

Current		2023
65%	➡	76%
ENROLL IN POSTSECONDARY OPPORTUNITIES ^a		

Current		2023
17%	➡	14%
REDUCE CHRONIC ABSENTEEISM		

Current		2023
1:4	➡	1:1
ACCESS TECHNOLOGY (STUDENT TO DEVICE RATIO)		

WPS WILL

Current		2023
	⬆	8%
INCREASE PER PUPIL EXPENDITURE BY		

Current		2023
	⬆	20%
INCREASE NUMBER OF HIGH PERFORMING SCHOOLS BY		

Current		2023
	⬆	25%
INCREASE DIVERSITY OF NEW HIRES BY		

For more information and a full copy of the strategic plan visit: worcesterschoolsstrategicplan.wrrb.org

Worcester Public Schools: Strategic Plan Benchmarks					
		2018	2019	2021	2023
SCHOOL IMPROVEMENT					
Reduce number of schools performing at or below the 10th percentile statewide	Benchmark	10 Schools	9 Schools	7 Schools	5 Schools
	Actual	10 Schools	10 Schools	Not Issued by DESE	
Increase the number of schools demonstrating or maintaining an SGP in ELA higher than state median 50%	Benchmark	50%	50.33%	50.67%	51%
	Actual	50%	52.10%	6.5%*	
Increase the number of schools demonstrating or maintaining an SGP in Math to higher than state median 50%	Benchmark	49%	49.33%	49.67%	50%
	Actual	54%	60.90%	2.2%*	
100 % of top-performing schools maintain their performance levels on state-designated metrics	Benchmark	9 schools	9 schools (Minimum)	9 schools	9 schools
	Actual	9 schools	9 schools	Not Issued by DESE	
100% of building leaders participate in Principal Academy	Benchmark	N/A	25%	45%	100%
	Actual	N/A	N/A	N/A	
ACADEMIC EXCELLENCE					
Reduce proficiency gap to 75% in English Language Arts and Math	Benchmark	50%	58%	67%	75%
	Actual	N/A	N/A	N/A	
47% of 3 rd Grade students will meet or exceed benchmarks on English Language Arts MCAS	Benchmark	31%	36%	41%	47%
	Actual	31%	37%	31%**	
49% of 3 rd Grade students will meet or exceed benchmarks on Math MCAS	Benchmark	29%	36%	42%	49%
	Actual	29%	30%	15%**	
49 % of 8 th Grade students will meet or exceed benchmarks on English Language Arts MCAS	Benchmark	33%	38%	44%	49%
	Actual	33%	34%	22%**	
46 % of 8 th Grade students will meet or exceed benchmarks on Math MCAS	Benchmark	25%	32%	39%	46%
	Actual	23%	23%	13%**	
100% of 12 th graders enroll and pass a college or career success activity prior to graduation (e.g. AP, dual enrollment, internship)	Benchmark	N/A	80%	90%	100%
	Actual	TBD	N/A	N/A	
100% of students can engage in a digital learning experience (e.g., course or skill building activity in K-5)	Benchmark	30%	53%	76%	100%
	Actual (edtech exp)***	N/A	N/A	98%	
	Actual (course exp)****	13%	55%	53%	

*MCAS Spring 2020 was not administered and Spring 2021 was administered remotely or in-person

**MCAS administration was both remote and in-person. MCAS was not administered in 2020.

***Education technology experience reflects the percentage of students using Clever to access education technology applications and platforms for learning. Tracking of this metric began in SY20 in the Clever platform ("Analytics">"EdTech Analytics">percentage of students logging into Clever) and was at 92%

****Course Experience reflects K-12 students taking any course that contains keywords such as digital or technology

Source: Worcester Public Schools

Worcester Regional Research Bureau

Worcester Public Schools: Strategic Plan Benchmarks

		2018	2019	2021	2023
Welcoming Schools					
Reduce chronic absenteeism to 13.5% for students	Benchmark	16.9%	15.8%	14.6%	13.5%
	Actual	17.0%	15.0%	15.0%	
Reduce number of youth disciplined for non- drug, non-violent, and non-criminal offenses by 30%	Benchmark	71%	61%	51%	41%
	Actual	71%	57%	32%	
Reduce percentage of students suspended for non- drug, non-violent, and non-criminal offenses by one-third districtwide	Benchmark	4.8%	4.48%	3.84%	3.2%
	Actual	4.8%	3.70%	0.00%	
Reduce number of students suspended for non- drug, non-violent, and non-criminal offenses by one-third in each subgroup	Shown Below				
<i>English Language Learners</i>	Benchmark	4.7%	4.4%	3.8%	3.1%
	Actual	4.7%	3.1%	0.1%	
<i>Economically disadvantaged</i>	Benchmark	6.1%	5.7%	4.9%	4.1%
	Actual	6.1%	4.5%	0.0%	
<i>Students w/ disabilities</i>	Benchmark	10.4%	9.7%	8.3%	7.0%
	Actual	10.4%	7.5%	0.1%	
<i>High needs</i>	Benchmark	5.5%	5.1%	4.4%	3.7%
	Actual	5.5%	4.0%	0.0%	
<i>American Indian or Alaska Native</i>	Benchmark	11.4%	10.6%	9.1%	7.6%
	Actual	11.4%	not reported	not reported	
<i>Asian</i>	Benchmark	0.7%	0.7%	0.6%	0.5%
	Actual	0.7%	0.6%	not reported	
<i>African American / Black</i>	Benchmark	4.8%	4.5%	3.8%	3.2%
	Actual	4.8%	3.8%	not reported	
<i>Hispanic / Latino</i>	Benchmark	6.7%	6.3%	5.4%	4.5%
	Actual	6.7%	4.7%	0.0%	
<i>Multi-race, Non-Hispanic / Latino</i>	Benchmark	6.6%	6.2%	5.3%	4.4%
	Actual	6.6%	5.1%	not reported	
<i>White</i>	Benchmark	3.1%	2.9%	2.5%	2.1%
	Actual	3.1%	2.5%	not reported	
100% of student engage in social and emotional support initiatives by graduation	Benchmark	N/A	33%	75%	100%
	Actual	N/A	N/A	N/A	
Reduce dropout rate to 1.8%	Benchmark	2.2%	2%	1.93%	1.8%
	Actual	2.3%	2.6%	1.10%	
By 2023 all schools have a parent liaison trained in parent engagement best practices*	Benchmark	20%	46%	72%	100%
	Actual	N/A	N/A	N/A	
Increase the number of schools with an active site council representative of the school community by 50%**	Benchmark	0	10%	30%	50%
	Actual	N/A	N/A	N/A	
80% of families report using student information and communication vehicles	Benchmark	N/A	26%	52%	80%
	Actual	N/A	N/A	N/A	

*Model changed. WPS are increasing Wrap-around coordinators.

**All schools have school site councils.

Source: Worcester Public Schools

Worcester Regional Research Bureau

Worcester Public Schools: Strategic Plan Benchmarks					
		2018	2019	2021	2023
EDUCATORS					
100% of educators proficient or higher on evaluation	Benchmark	97.4%	97.6%	98.1%	98.5%
	Actual	96.9%	97.5%	N/A	
Increase diversity of new hires by 25%	Benchmark	N/A	8%	17%	25%
	Actual	22.4%	28.1%	25.5%	
80% of district- and school- level professional development opportunities align with strategic plan training areas	Benchmark	N/A	27%	53%	80%
	Actual	N/A	N/A	N/A	
50% of educators earn continuing education credits in priority areas of strategic plan*	Benchmark	N/A	17%	33%	50%
	Actual	N/A	N/A	N/A	
80% of educators report application of practices aligned with training area**	Benchmark	N/A	27%	53%	80%
	Actual	N/A	N/A	N/A	
80% of all leadership and educators will report that they have proficiency in the ISTE standards***	Benchmark	N/A	26%	52%	80%
	Actual	N/A	N/A	N/A	
OPERATIONS					
100% of School Committee meetings are guided by a consent agenda supported by mayor and superintendent****	Benchmark	N/A	33%	75%	100%
	Actual	N/A	N/A	N/A	
Increase participation of the community in existing governance meetings by 40%	Benchmark	N/A	13%	26%	40%
	Actual	N/A	N/A	N/A	
Increase per-pupil expenditure by 20%	Benchmark	N/A	4%	12%	20%
	Actual	N/A	4%	Not Available Yet	
Increase the revenue from in-kind or financial contributions within the community by 20%	Benchmark	N/A	6%	13%	20%
	Actual	N/A	N/A	N/A	

*100% of educators earn professional development points

**100% of educators earn professional development points based on demonstration of application of learning

***BrightBytes survey administered in SY22: Leadership & Educators were proficient on 6 of 7 ISTE standards

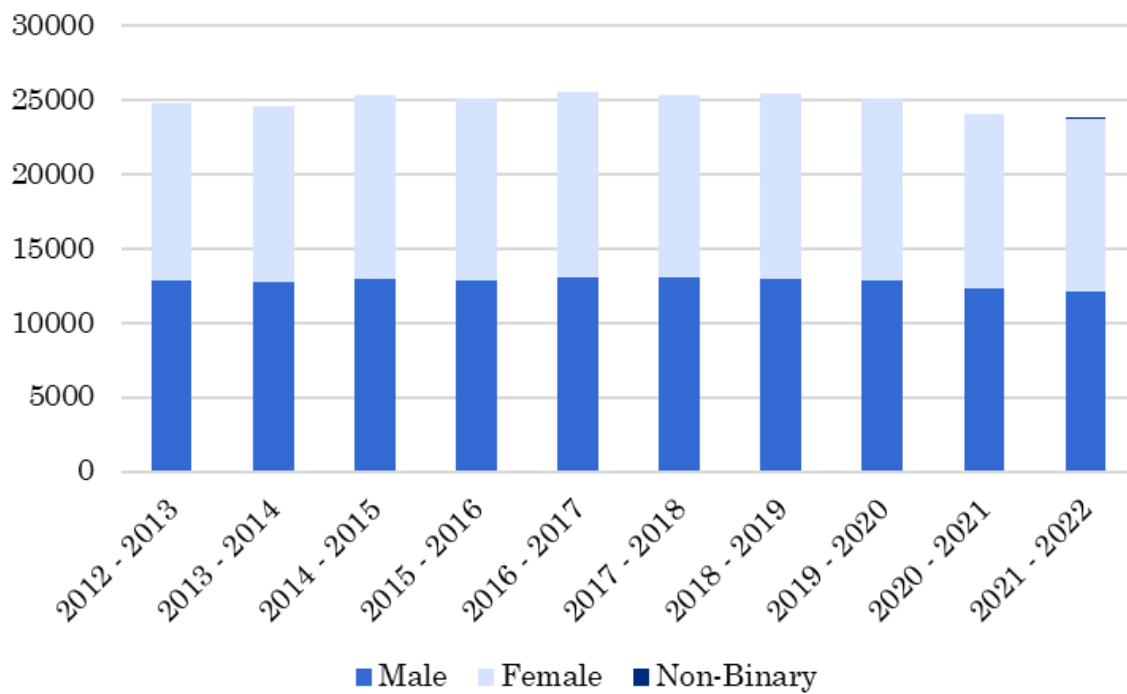
****As of January 2022, 100% of the School Committee meetings are guided by a consent agenda supported by the vice chair and superintendent

Source: Worcester Public Schools

Worcester Public Schools: 2021-2022		
	Number of Schools	Number of Students
Elementary Schools	34	12,687
Middle Schools 6-8	1	870
Middle Schools 7-8	3	2,399
Grade 7-12 Schools	2	760
High Schools	5	6,815
Head Start Program	1	204
<i>Total</i>		23,735

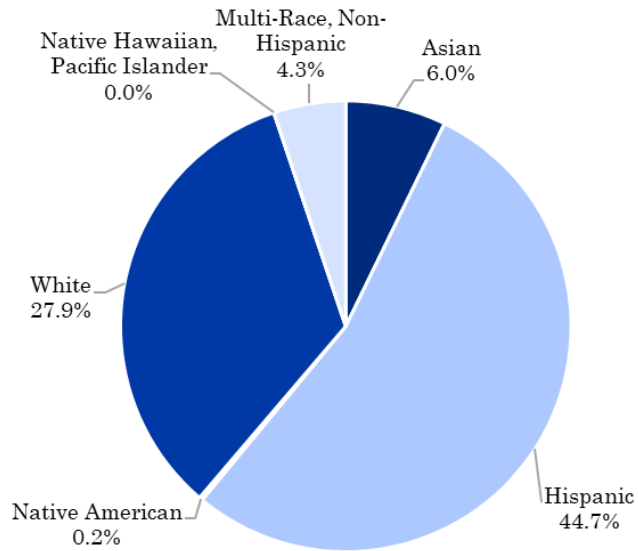
Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Enrollment by Gender, 2012-2022



Source: Massachusetts Department of Elementary & Secondary Education.

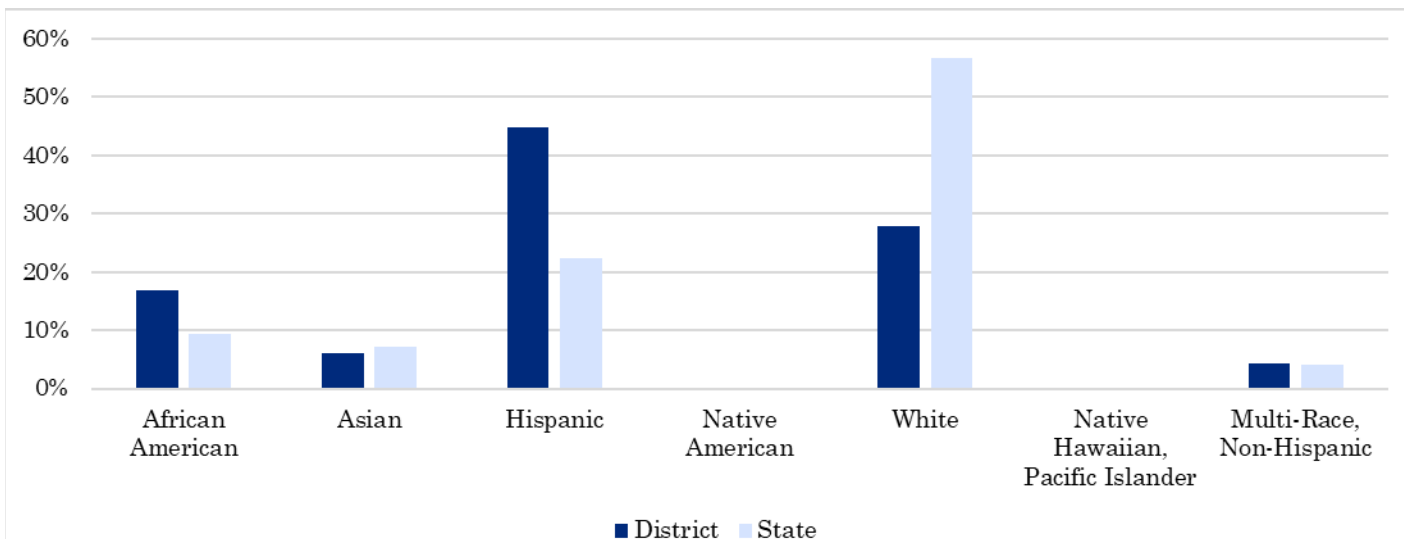
Worcester Public Schools: Enrollment by Race/Ethnicity, 2020-2021



The U.S. Census Bureau tallies five categories of race: “American Indian or Alaska Native,” “Asian,” “Black or African American,” “Native Hawaiian or Other Pacific Islander,” and “White.” Hispanic origin is defined as ethnicity, rather than race, and persons defined as Hispanic or Latino can be of any race.

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Enrollment by Race/Ethnicity Compared to State, 2020-2021



Source: Massachusetts Department of Elementary & Secondary Education.

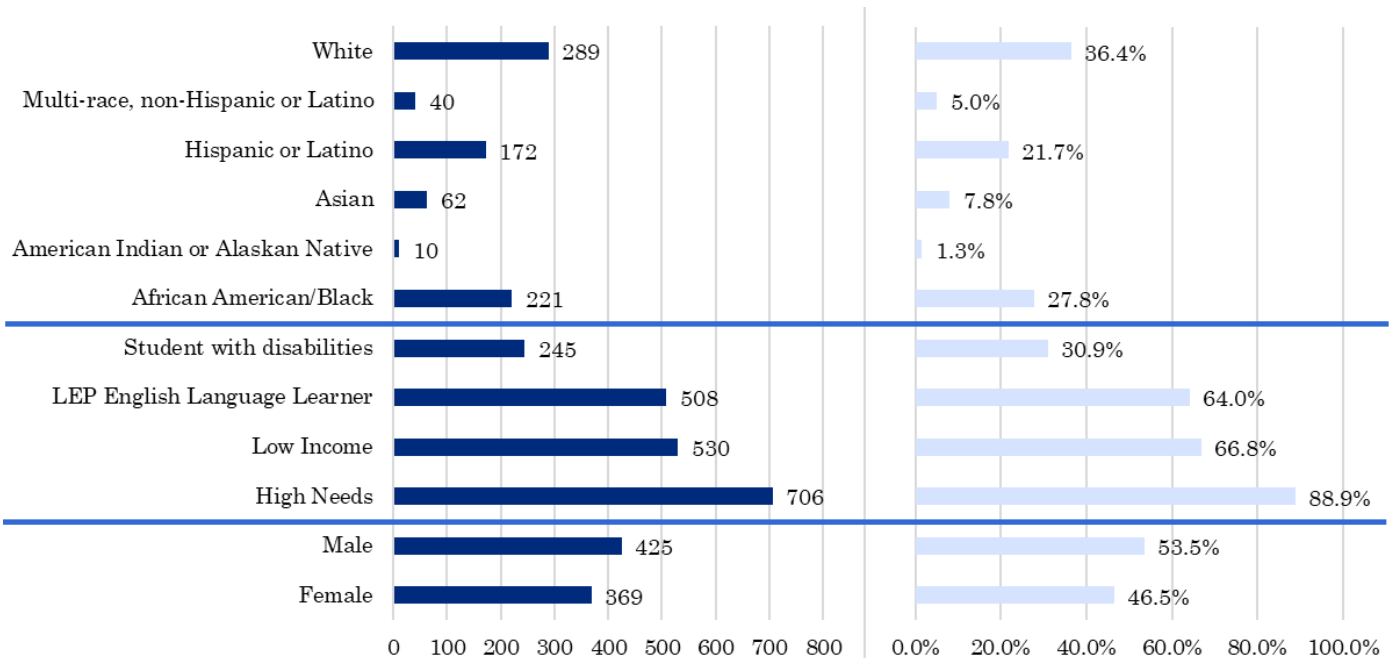
Worcester Public Schools: Enrollment 2020-2021

Enrollment

	Number of Students		Number of Students
Head Start	204	Middle Schools	
Elementary Schools		Burncoat Middle School	686
Belmont Street Community	545	Forest Grove Middle	932
Burncoat Street	254	Sullivan Middle	870
Canterbury	295	Worcester East Middle	781
Chandler Elementary Community	423	<i>Total Middle School Students</i>	<i>3,269</i>
Chandler Magnet	418	Grades 7-12 Schools	
City View	451	Claremont Academy	527
Clark St Community	257	University Pk Campus School	233
Columbus Park	377	<i>Total Grades 7-12 School Students</i>	<i>760</i>
Elm Park Community	398	High Schools	
Flagg Street	339	Burncoat Senior High	1,176
Francis J McGrath Elementary	204	Doherty Memorial High	1,331
Gates Lane	515	North High	1,308
Goddard School/Science Technical	378	South High Community	1,524
Grafton Street	410	Worcester Technical High	1,476
Heard Street	238	<i>Total High School Students</i>	<i>6,815</i>
Jacob Hiatt Magnet	358	Total Number of Students in WPS	23,735
La Familia Dual Language School	155		
Lake View	307		
Lincoln Street	235		
May Street	300		
Midland Street	196		
Nelson Place	568		
Norrback Avenue	515		
Quinsigamond	655		
Rice Square	516		
Roosevelt	480		
Tatnuck	393		
Thorndyke Road	357		
Union Hill School	383		
Vernon Hill School	469		
Wawecus Road School	118		
West Tatnuck	340		
Woodland Academy	480		
Worcester Arts Magnet School	360		
<i>Total Elementary School Students</i>	<i>12,687</i>		

Source: Massachusetts Department of Elementary & Secondary Education.

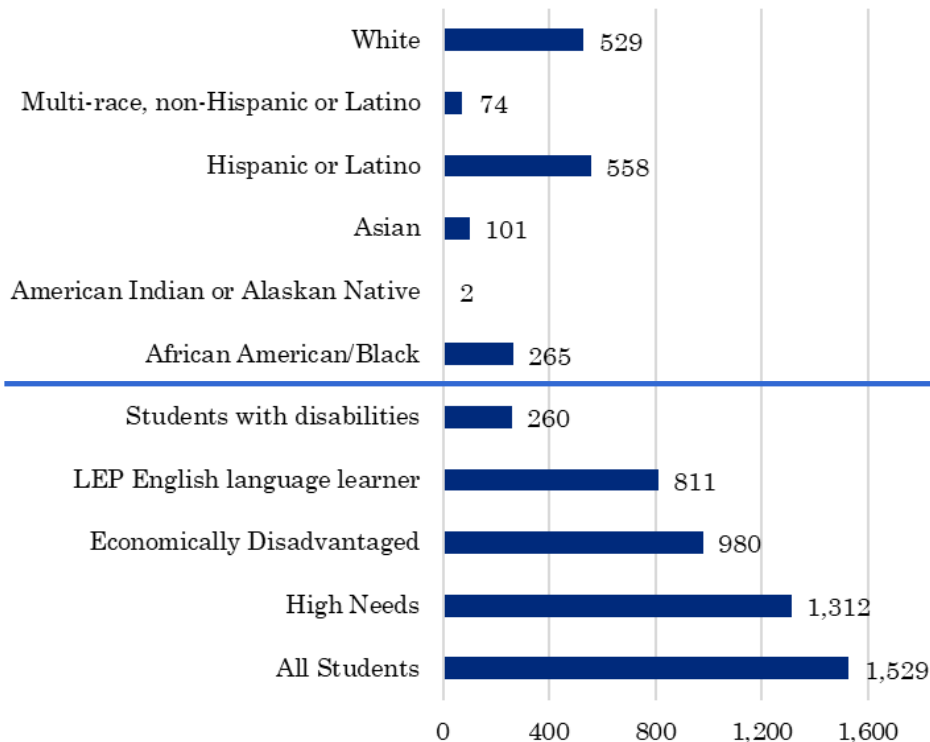
Worcester Public Schools: Pre-K Enrollment by Selected Characteristics, 2020-2021



Source: Massachusetts Department of Elementary & Secondary Education.

Enrollment

Worcester Public Schools: Kindergarten Enrollment by Selected Characteristics, 2020-2021



There were 794 students enrolled in the Worcester Public Schools Pre-Kindergarten Program.

All Kindergarten Enrollment is based on Full-time, Full-day programs. There were no students enrolled in the Worcester Public Schools Kindergarten program that were Part-time or Tuitioned.

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester: Private Schools, 2021
Alhuda Academy (PK-8)
Bancroft School (PK-12)
Happy Day Child Care Center (PK-3)
Notre Dame Academy (7-12)
Our Lady of the Angels School (PK-8)
Saint Paul Diocesan Junior/Senior High School (7-12)
Saint Peter Central Catholic School (PK-8)
Saint Stephen School (PK-8)
The Nativity School of Worcester (5-8)
Venerini Academy Elementary School (PK-8)
Worcester Academy (6-12+)
Worcester Seventh Day Adventist School (1-8)

Worcester: Charter Schools, 2021
Abby Kelley Foster Charter Public School (K-12)
Learning First Charter Public School (K-8)

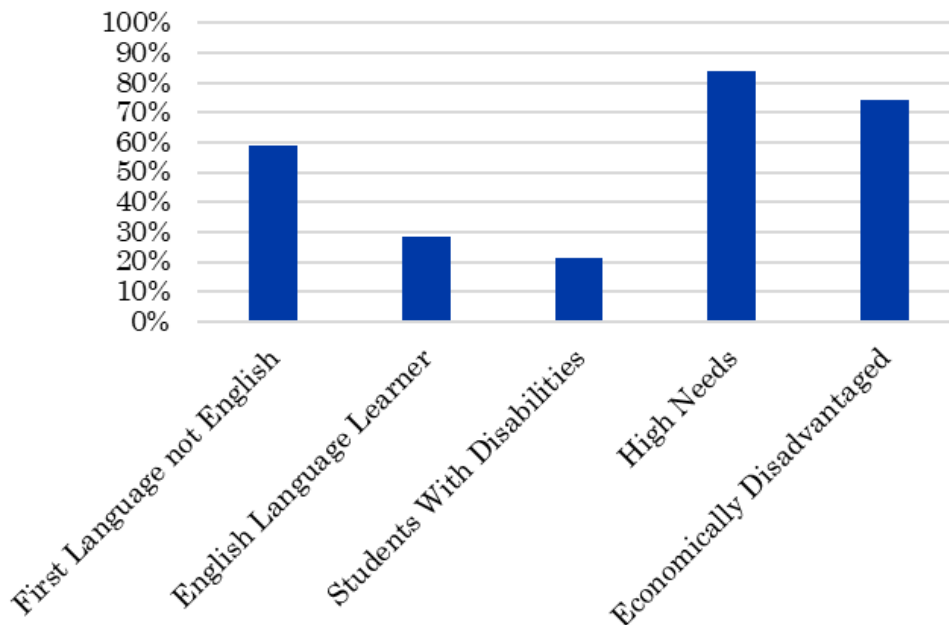
Worcester: Independent Public Schools, 2021
Massachusetts Academy of Math and Science (11-12)

Sources: Massachusetts Department of Elementary & Secondary Education

Worcester Public Schools: Indicators, 2020-2021	
Grade 9-12 Drop Out Rate	1.7%
Retention Rate	0.9%
Attendance Rate	95.3%
Average Number of Days Absent	7.6
Percent of Students with Unexcused Absences Greater than 9 Days	22.2%

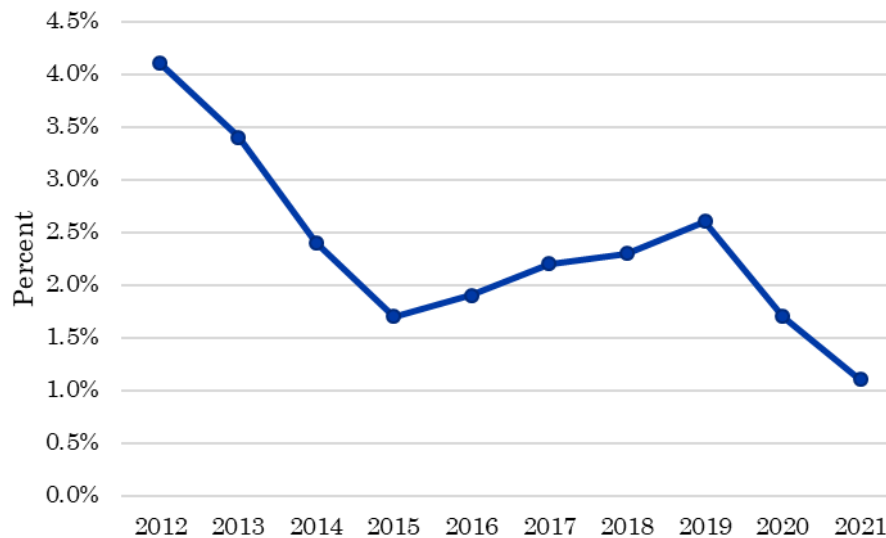
Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Selected Populations, 2021-2022



Source: Massachusetts Department of Elementary & Secondary Education.

The “First Language Not English” category includes individuals who learned English after learning another language and does not address the individual’s proficiency with English itself. “English Language Learner” identifies individuals who struggle to complete normal classwork in English.

Worcester Public Schools: Grades 9-12 Drop-Out Rates, 2012-2021

Source: Massachusetts Department of Elementary & Secondary Education.

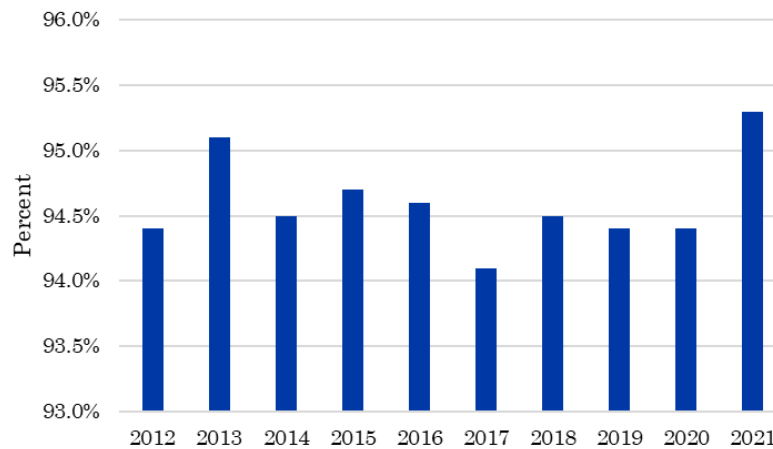
Worcester Public Schools: 4-Year Graduation Rates, Class of 2021

	Percent Graduated**	Percent Still in School	Percent Non-Grad Completers	Percent H.S. Equiv.	Percent Dropped Out
All Student	88	6.2	0.1	0.3	5.4
Male	85.4	7.6	0.1	0.2	6.7
Female	90.8	4.7	0.1	0.4	4.0
EL	79.2	11.6	0.4	0.0	8.9
Low Income	85.4	7.6	0	0.4	6.6
High Needs	85.6	7.6	0.1	0.3	6.3
Students with disabilities	73.1	17.1	0.0	0.0	9.8
African American/Black	90.9	6.5	0.0	0.0	2.6
Asian	96.3	1.5	0.7	0.0	1.5
Hispanic or Latino	83.2	8.0	0.1	0.2	8.4
American Indian or Alaskan Native	-	-	-	-	-
White	90.5	5.0	0.0	0.6	4.0
Native Hawaiian or Pacific Islander	-	-	-	-	-
Multi-Race, Non Hispanic or Latino	93.0	2.8	0.0	1.4	2.8

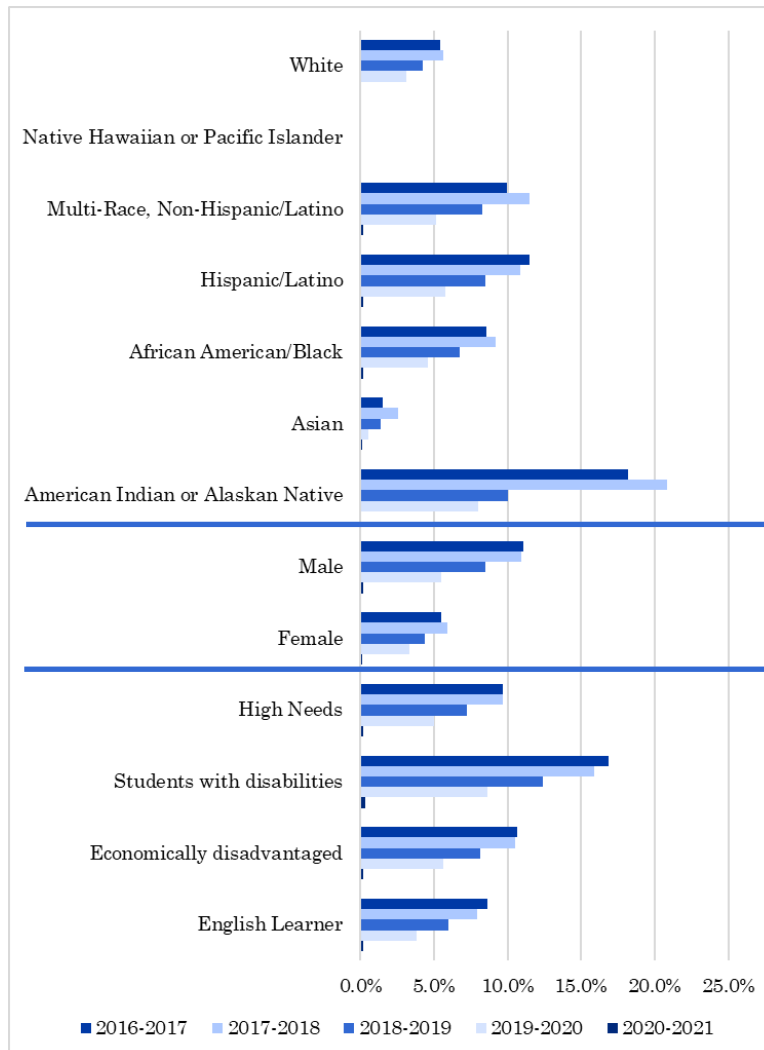
*Graduation rates are not publicly reported for cohort counts fewer than 6.

**Indicates the percentage of students who graduate with a regular high school diploma within 4 years.

Source: Massachusetts Department of Elementary & Secondary Education.

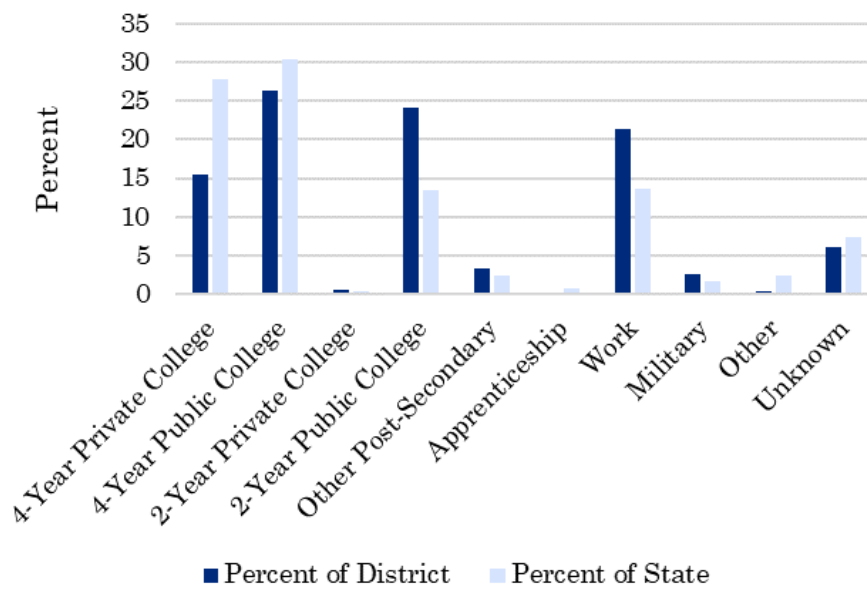
Worcester Public Schools: Attendance Rates, 2012-2021

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Discipline by Student Group, 2016-2021

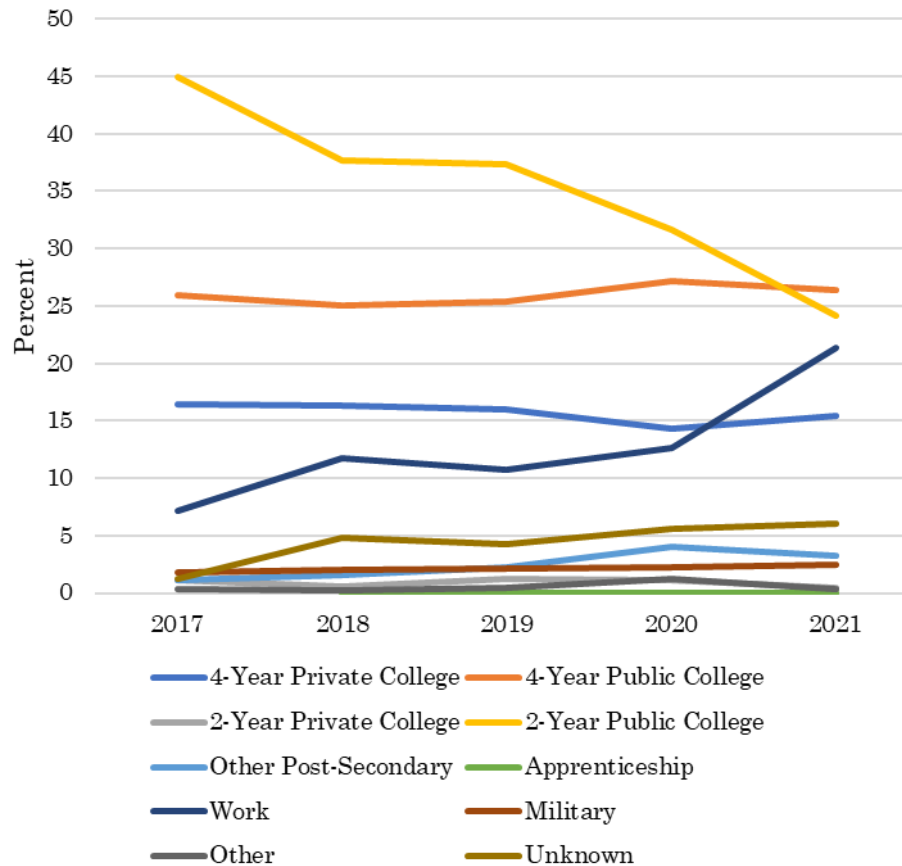
Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Plans of High School Graduates, 2020-2021



Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Plans of High School Graduates, 2017-2021

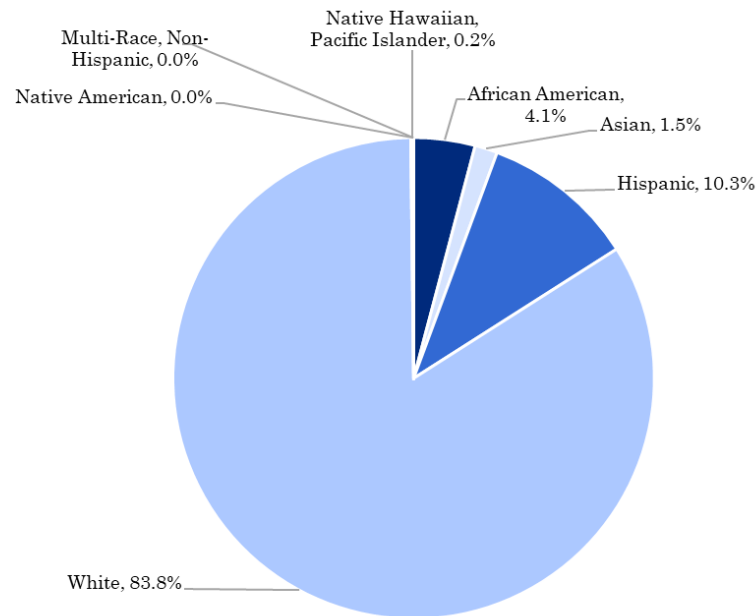


Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Teacher Data, 2020-2021

	Worcester	State
Total Number of Teachers - Full Time Equivalent	1840.6	75,146.7
Student-Teacher Ratio	13	12.1
% of Teachers Licensed	97.9	97.6

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Staffing by Race, 2020-2021

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Teacher by Program Area, 2020-2021

	Worcester	State
General Education	1,680.9	61,947.2
Special Education	0.0	9,316.5
Career Vocational Technical	65.7	1,895.9
English Language Learner	94.0	1,987.1
Totals	1,840.6	75,146.7

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Staffing by Gender, 2020-2021

	Worcester		State	
	Number	Percent	Number	Percent
Males	728.8	19.8%	27,782.9	20.4%
Females	2,956.2	80.2%	108,536.1	79.6%

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Generation MCAS Tests 2021								
	Percent Exceeding Expectations		Percent Meeting Expectations		Percent Partially Meeting Expectations		Percent Not Meeting Expectations	
	WPS	MA	WPS	MA	WPS	MA	WPS	MA
GRADE 03 - English Language Arts	4	9	27	41	50	39	19	10
GRADE 03 - Mathematics	2	5	13	28	38	40	47	26
GRADE 04 - English Language Arts	2	6	27	43	46	38	25	13
GRADE 04 - Mathematics	1	4	12	29	41	43	46	24
GRADE 05 - English Language Arts	3	8	24	39	48	41	24	12
GRADE 05 - Mathematics	1	4	13	29	49	47	37	20
GRADE 05 - Science	2	7	20	36	44	39	34	19
GRADE 06 - English Language Arts	8	12	26	35	31	31	35	22
GRADE 06 - Mathematics	3	5	18	29	43	44	37	23
GRADE 07 - English Language Arts	3	6	21	37	39	37	37	20
GRADE 07 - Mathematics	2	6	16	29	50	47	33	18
GRADE 08 - English Language Arts	3	6	19	34	45	41	33	18
GRADE 08 - Mathematics	1	4	12	28	48	46	39	21
GRADE 08 - Science	3	8	19	33	46	43	33	16
GRADE 10 - English Language Arts	9	19	33	45	37	27	20	9
GRADE 10 - Mathematics	4	11	24	41	44	36	27	12
GRADE 10 - Science & Tech/Engineering*								

*Grade 10 STE results are reported based on students' best performance on any STE test taken in grade 9 or grade 10; only students continuously enrolled in the state, district, or school from fall of grade 9 through spring of grade 10 are included in state, district, or school results.

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: SAT Performance Report, 2020-2021			
	Number of Test Takers	Average Reading Score	Average Math Score
All Students	643	518	521
English Learner	40	395	392
Economically Disadvantaged	248	483	488
Students with Disabilities	20	393	396
High Needs	291	475	481
Female	370	519	514
Male	273	518	530
Asian	94	533	551
African American/Black	120	483	481
Hispanic/Latino	127	484	474
Multi-race, Non-Hispanic/Latino	23	508	510
White	279	545	550

Source: Massachusetts Department of Elementary & Secondary Education.

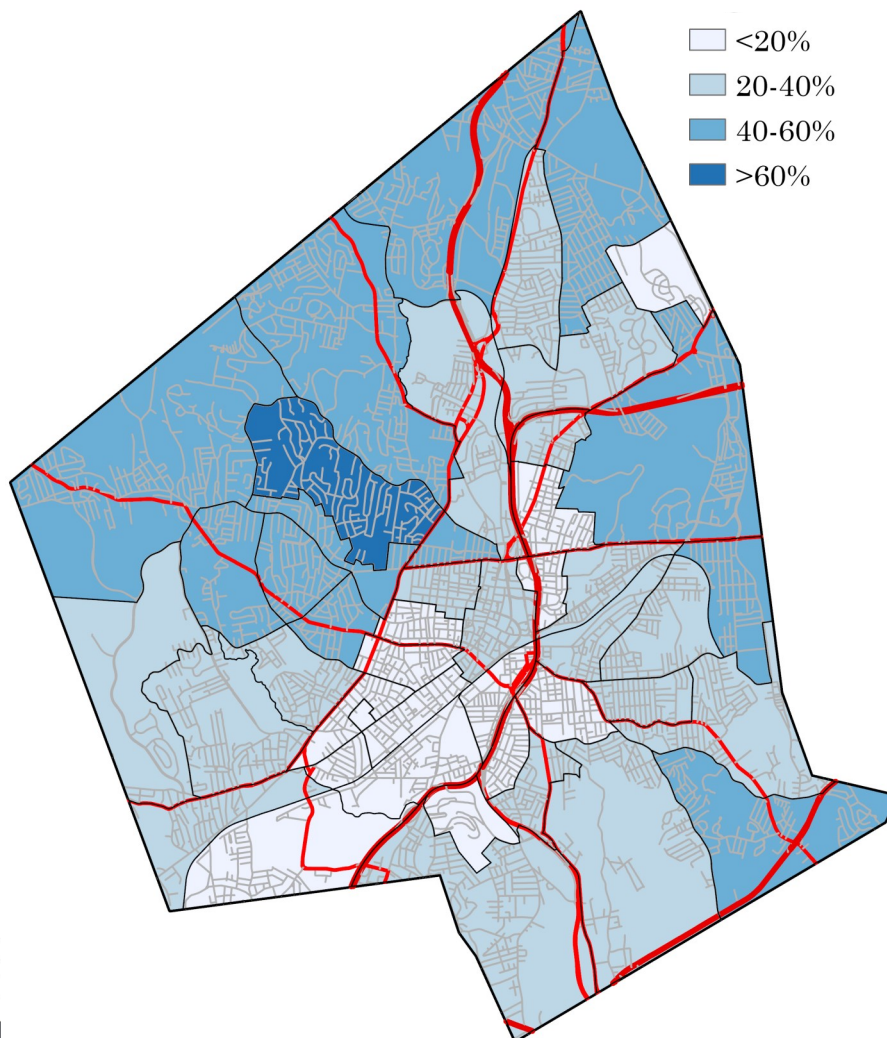
Worcester Public Schools: Advanced Placement Performance, 2020-2021			
Subject	Tests Taken	Percent Score 1-2	Percent Score 3-5
All Subjects	2,060	69.10%	30.90%
Arts	50	48.00%	52.00%
English Language Arts	376	72.10%	27.90%
Foreign Languages	80	31.30%	68.80%
History and Social Science	685	71.20%	28.80%
Math and Computer Science	409	69.70%	30.30%
Science and Technology	431	74.90%	25.10%
Capstone	29	27.60%	72.40%

Source: Massachusetts Department of Elementary & Secondary Education.

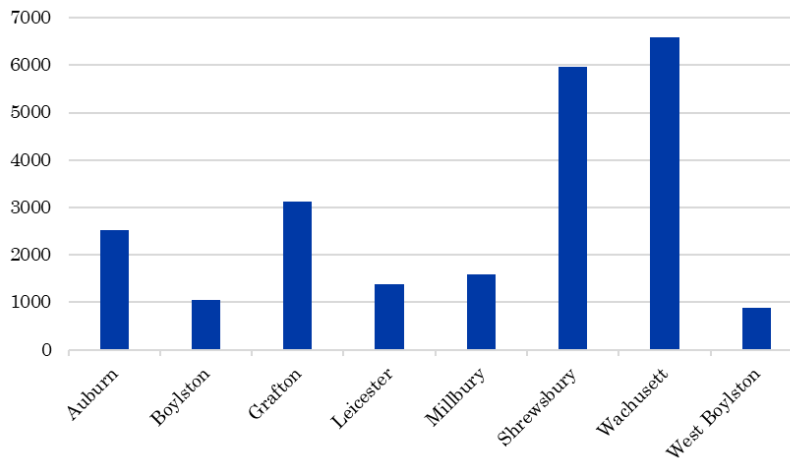
Worcester: Educational Attainment, 2020		
	Number	Percent
Population 25 Years and Over	121,348	
Less than 9th Grade	6,485	5.3%
9th to 12th Grade, No Diploma	10,796	8.9%
High School Graduate, Includes Equivalency	35,313	29.1%
Some College, No Degree	21,494	17.7%
Associate's Degree	9,444	7.8%
Bachelor's Degree	22,812	18.8%
Graduate or Professional Degree	15,004	12.4%

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Percent of Residents 25 Years of Age and Older with Bachelor's Degree, 2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Greater Worcester: Number of Students, 2021

Source: Massachusetts Department of Elementary & Secondary Education.

Greater Worcester: Percent Population 25 and Over with Bachelor's Degree or Higher, 2020

Auburn	41.4%
Boylston	56.3%
Grafton	51.8%
Holden	57.1%
Leicester	27.3%
Millbury	32.0%
Paxton	55.0%
Shrewsbury	62.5%
West Boylston	35.4%
Worcester	31.2%

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Greater Worcester: Colleges & Universities, 2022

Anna Maria College (Paxton)
Assumption University (Worcester)
Clark University (Worcester)
College of the Holy Cross (Worcester)
MCPHS University (Worcester & Boston)
Nichols College (Dudley)
Quinsigamond Community College (Worcester)
Tufts Cummings School of Veterinary Medicine (Grafton)
University of Massachusetts Medical School (Worcester)
Worcester Polytechnic Institute (Worcester)
Worcester State University (Worcester)

Source: Worcester Regional Research Bureau, Inc.

Greater Worcester Higher Education Institutions: Students, Alumni, & Faculty, 2021

Students	
Undergraduate Students	29,416
Graduate Students	10,005
Students from the City of Worcester	5,943
Students from Worcester County	13,511
Students from Massachusetts	27,706
Students from the United States	38,190
Students who are International	3,523
Alumni	
Alumni Residing in the City of Worcester	21,697
Alumni Residing in Worcester County	72,968
Alumni Residing in Massachusetts (at least part-year)	140,608
Faculty, Administration, & Staff	
Faculty, Administrators, & Staff Residing in the City of Worcester	3,272
Faculty, Administrators, & Staff Residing in Worcester County	8,959
Faculty, Administrators, & Staff Residing in Massachusetts	12,889

Source: Higher Education Consortium of Central Massachusetts

Greater Worcester Higher Education Institutions: Expenditures, 2021

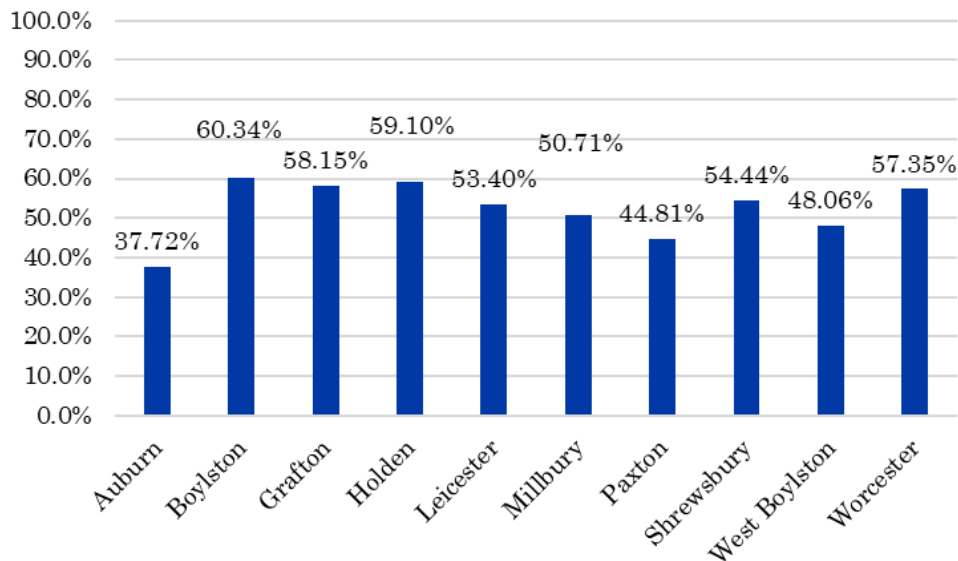
Purchasing Expenditures	
Total Paid to Suppliers/Vendors in the City of Worcester	\$65,860,907.29
Total Paid to Suppliers/Vendors in Worcester County	\$87,793,045.06
Total Paid to Suppliers/Vendors in Massachusetts	\$349,194,829.30
Capital Expenditures	
Total Paid to Contractors/Vendors in the City of Worcester	\$14,624,190.29
Total Paid to Contractors/Vendors in Worcester County	\$50,550,845.81
Total Paid to Contractors/Vendors in Massachusetts	\$78,911,982.18

Source: Higher Education Consortium of Central Massachusetts

Greater Worcester Higher Education Institutions: Taxes, Fees, Costs, Etc., 2021

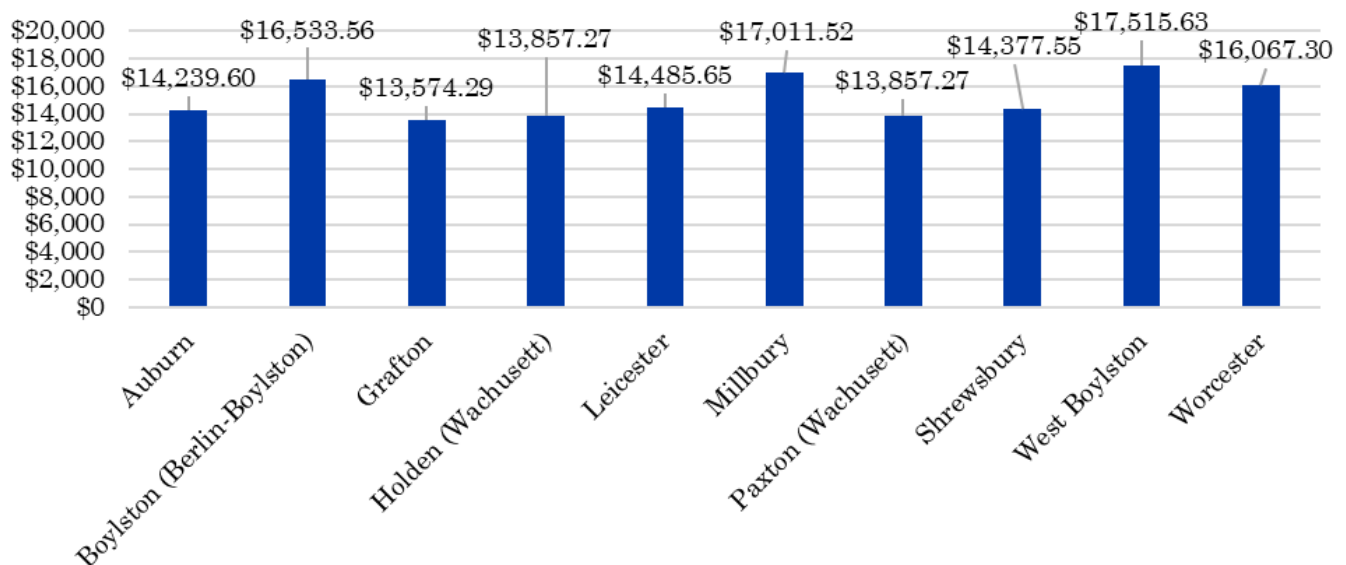
Worcester	
Real Estate Taxes	\$2,639,971.93
Water/Sewer Fees	\$4,143,834.62
Other Fees (permits, licenses, inspections, etc.)	\$409,026.52
Other Financial Contributions	\$1,293,986.06
Police Department	\$464,088.56
Fire Department	\$25,820.80
Dudley, North Grafton, Paxton, or West Boylston	
Real Estate Taxes	\$19,409.24
Water/Sewer Fees	\$356,276.99
Other Fees (permits, licenses, inspections, etc.)	\$5,820.00
Other Financial Contributions	\$79,884.49
Police Department	\$658,690.95
Fire Department	\$27,110.00

Source: Higher Education Consortium of Central Massachusetts

Greater Worcester: Education as a Percent of the Municipal Budget, 2021

Source: Massachusetts Department of Elementary & Secondary Education.

The towns of Holden and Paxton are part of the Wachusett Regional School District, the largest regional district in the Commonwealth. The town of Boylston oversees a K-5 elementary school and is part of the Berlin-Boylston Regional School District for Grades 6-12.

Greater Worcester: Per Pupil Spending, 2020

Source: Massachusetts Department of Elementary & Secondary Education.

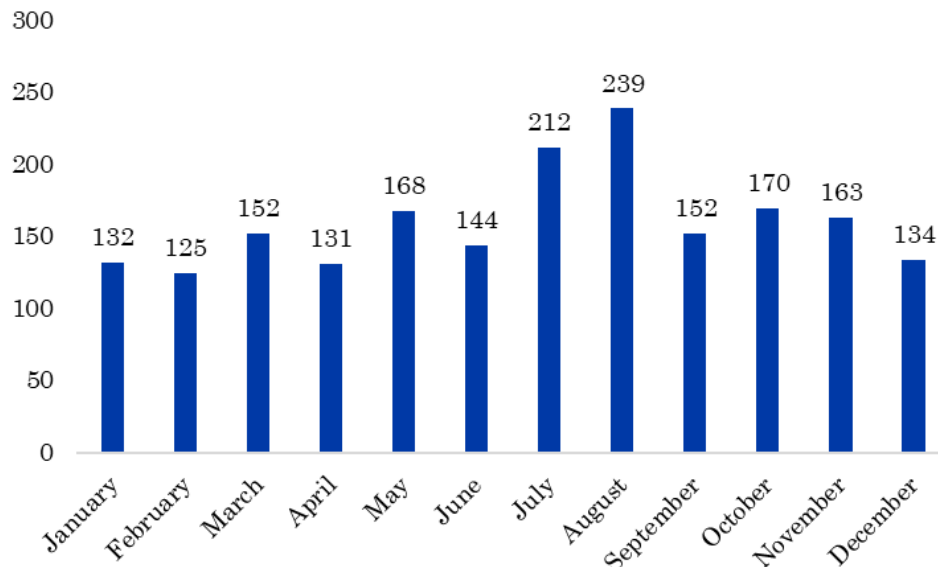


Public Safety

Worcester: Arrest Offenses 2021			
Simple Assault	532	Purchasing Prostitution	15
Aggravated Assault	342	Motor Vehicle Theft	11
Drug/Narcotic Violations	262	Intimidation	11
All Other Offenses	98	Theft From Building	9
Disorderly Conduct	91	All Other Larceny	7
Trespass of Real Property	85	False Pretenses/Swindle/ Confidence Game	6
Burglary/Breaking & Entering	55	Curfew/Loitering/Vagrancy Violations	5
Shoplifting	53	Arson	4
Destruction/Damage/Vandalism of Property	48	Rape	4
Stolen Property Offenses	41	Fondling	3
Driving Under the Influence	36	Credit Card/Automatic Teller Fraud	3
Robbery	36	Murder and Nonnegligent Manslaughter	3
Weapon Law Violations	36	Counterfeiting/Forgery	2
Liquor Law Violations	35	Embezzlement	2
Kidnapping/Abduction	34	Theft of Motor Vehicle Parts/ Accessories	2
Theft From Motor Vehicle	17	Negligent Manslaughter	2
Prostitution	16	Statutory Rape	1

Source: Massachusetts Executive Office of Public Safety and Security

Worcester: Arrestees Per Month, 2021



Source: Massachusetts Executive Office of Public Safety and Security

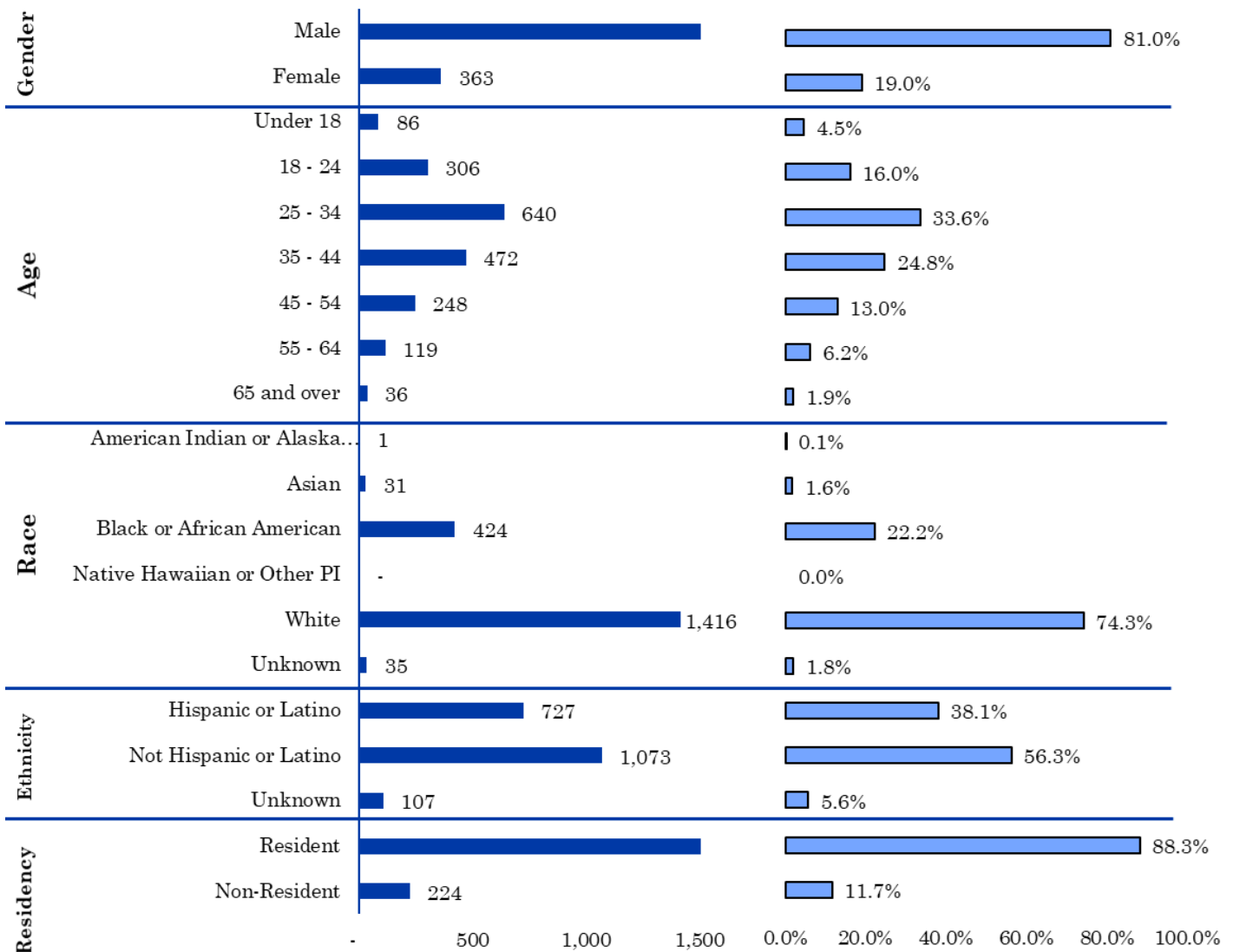
Worcester Crime Statistics										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Aggravated Assault	1342	1298	1236	1347	1186	1177	974	928	883	915
Murder & Nonnegligent Manslaughter	11	8	9	6	8	8	5	4	13	10
Rape	36	33	22	7	26	63	42	49	40	38
Robbery	411	419	483	402	407	394	324	290	229	210
Burglary/Breaking & Entering	2066	2040	1916	1414	1214	1366	866	849	786	690
Larceny-Theft	3841	3927	3924	3824	3765	3473	2784	2790	2637	2679
Motor Vehicle Theft	530	465	399	366	396	519	397	340	369	440
Arson	10	6	7	2	3	5	7	9	6	10

Source: FBI Uniform Crime Reporting

Year	Total Crimes	Crimes Cleared	WPD Clearance Rate	Massachusetts Clearance Rate
2010	14,557	4,268	29.32%	26.41%
2011	14,533	3,987	27.43%	27.07%
2012	14,737	3,953	26.82%	27.45%
2013	14,522	4,011	27.62%	28.41%
2014	14,125	3,934	27.85%	29.09%
2015	12,951	3,350	25.87%	28.97%
2016	13,291	3,618	27.22%	30.25%
2017	11,557	3,531	30.55%	30.69%
2018	11,196	3,153	28.16%	31.49%
2019	10,894	3,002	27.56%	30.29%
2020	10,961	2,287	20.86%	22.24%
2021	10,785	2,045	18.96%	25.15%

Source: Massachusetts Executive Office of Public Safety and Security

Worcester: Arrests by the Worcester Police Department, 2021



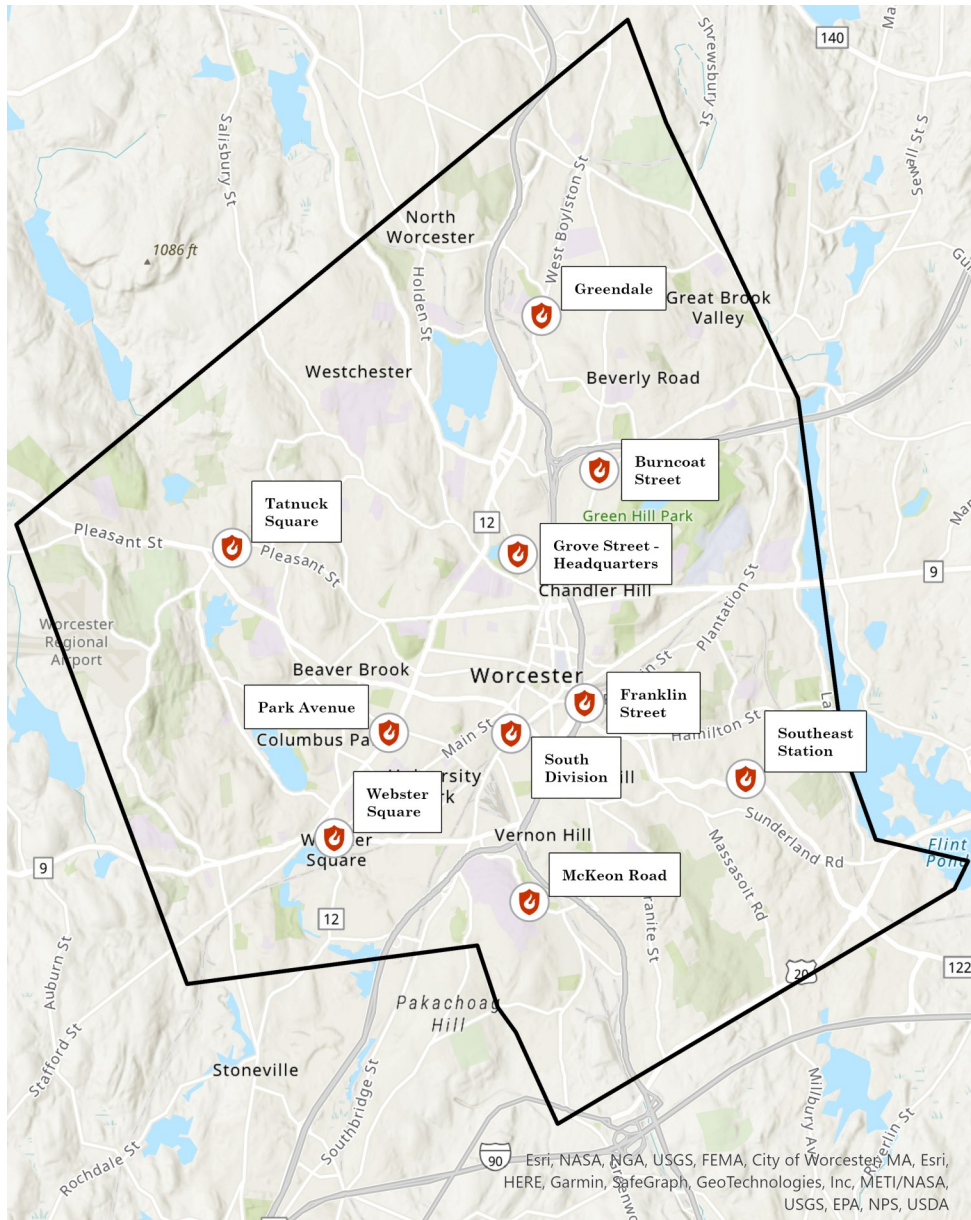
Source: Massachusetts Executive Office of Public Safety and Security

Worcester: Staffing for Police & Fire, FY22 Budget	
<i>Fire</i>	<i>Number</i>
Fire Chief	1
Deputy Fire Chief	2
District Fire Chief	12
Captain	27
Lieutenant	70
Firefighter	297
Other	14
TOTAL	423
<i>Police</i>	<i>Number</i>
Chief of Police	1
Deputy Police Chief	4
Police Captain	8
Police Lieutenant	24
Police Sergeant	55
Police Officers	366
Other	59
TOTAL	517

Source: City of Worcester.

Worcester: Fire Department Activity, 2021							
	2015	2016	2017	2018	2019	2020	2021
Fire	1,502	1,425	1,266	1,381	1,307	911	1,156
Overpressure / rupture	47	30	29	36	75	15	23
EMS / rescue	22,521	24,080	23,727	22,339	21,489	11,572	20,270
Hazardous conditions	986	926	1,041	1,061	1,004	759	966
Service calls	1,333	1,419	1,439	2,338	1,947	1,299	1,805
Good intent	2,149	1,951	2,168	2,340	2,147	1,157	1,779
False alarm	3,206	3,281	3,138	3,618	3,489	2,122	3,395
Weather / natural disaster	3	3	1	6	1	2	
Total	31,747	33,115	32,809	33,119	31,459	17,837	29,394

Source: National Fire Incident Reporting System (NFIRS)



Worcester: Fire Stations, 2022

Grove Street (Headquarters)	141 Grove Street, 01605	Engine 3, Engine 16, Ladder 2 and Car 3
Burncoat Street	19 Burncoat Street, 01605	Engine 8
Franklin Street	266 Franklin Street, 01604	Engine 6, Engine 12 and Ladder 1
Greendale	438 West Boylston Street, 01606	Engine 11 and Ladder 6
McKeon Road	80 McKeon Road, 01607	Engine 15 and Ladder 5
Park Avenue	424 Park Ave, 01610	Engine 4 and Ladder 7
South Division	180 Southbridge Street, 01608	Engine 2, Engine 13, Ladder 3, Car 4 and Scuba 1
Southeast Station	745 Grafton Street, 01604	Engine 7 and Haz Mat 33
Tatnuck Square	1067 Pleasant Street, 01602	Engine 9
Webster Square	40 Webster Street, 01603	Engine 5, Ladder 4, Special Ops 1 and SCBA Unit

Source: Worcester Fire Department.

Licenses

Worcester: Firearm Licenses, 2021	
Firearm Identification Cards (FIDs)	35
Licenses to Carry (LTCs)	1,765

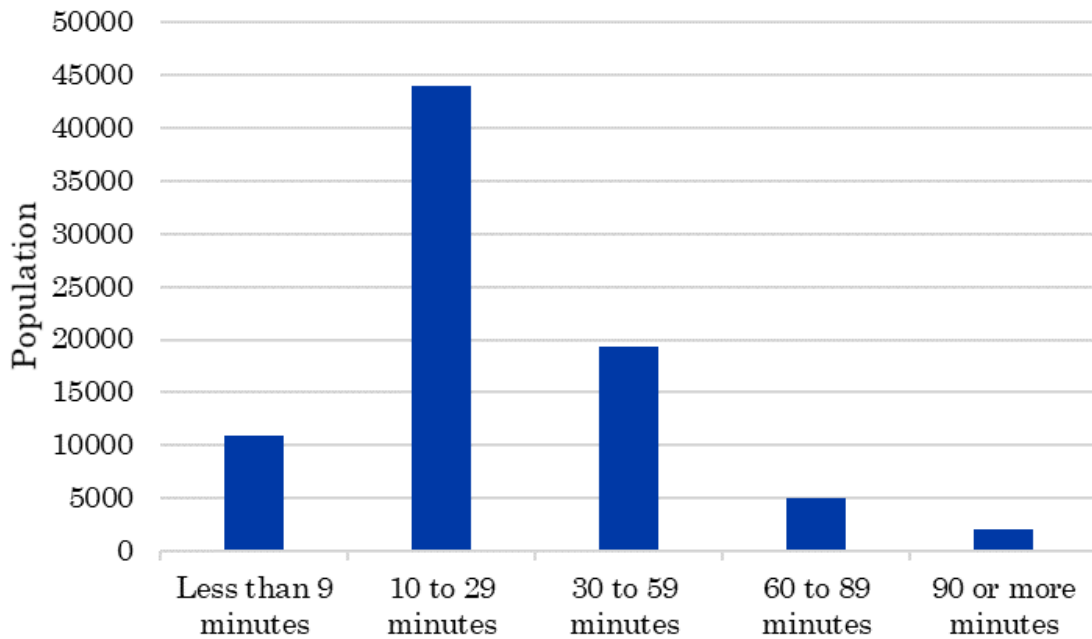
Source: Worcester Police Department.

Worcester: Municipal Licenses, September 2021	
Second-Hand Motor Vehicle (Car Lot) Licenses	254
Second-Hand Article Licenses	64
Pawn Brokers Licenses	4
Hawkers and Peddlers Licenses	16
Solicit and Canvas	2
Ice Cream Vendor Permits	10

Source: Worcester Police Department.



Transportation & Infrastructure

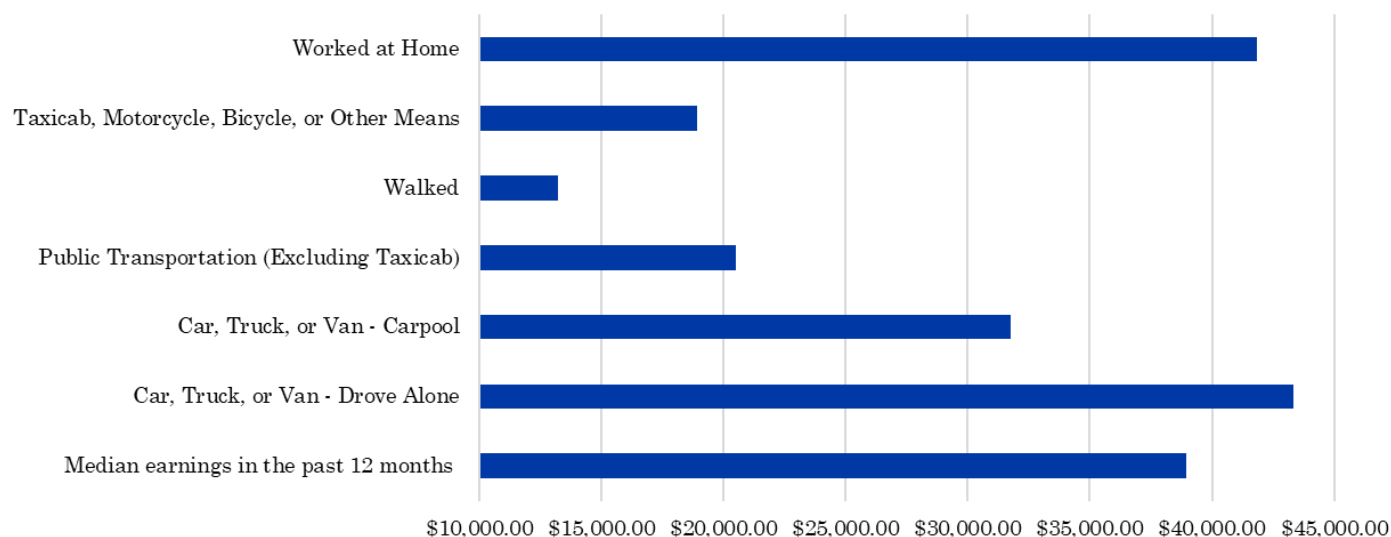
Worcester: Commute Times, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester Work Commute Patterns (Workers 16 Years & Older), 2020				
	Number Worcester Residents	Percent Worcester Residents	Number MA Residents	Percent MA Residents
Car, Truck, or Van - Drove Alone	60,515	69.0%	2,410,716	68.0%
Car, Truck, or Van - Carpooled	9,571	10.9%	257,379	7.3%
Public Transportation (Excluding Taxicab)	2,619	3.0%	337,729	9.5%
Walked	6,245	7.1%	170,570	4.8%
Other Means (Taxicab, Motorcycle, Bicycle, or Other Means)	2,472	2.8%	75,072	2.1%
Worked at Home	6,322	7.2%	292,852	8.3%

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Median Earnings by Means of Transportation to Work, 2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: 2021 Traffic Counts for Each Location

Location	Average Annual Daily Traffic Count
I-290 above Washington Square	124,731
I-290 above College Square	85,069
I-190 at I290 Southbound	25,926
Belmont Street at Lake Avenue \	31,372
Belmont Street at Lincoln Square	26,198
I-290 Exit 13 (Kelley Square) (All Ramps)	30,414
I-90 & Rt. 146 Interchange (All Directions)	24,532
Park Avenue at Chandler Street	21,582
Pleasant Street West of Flagg Street	15,539
Grafton Street at Sunderland Road	16,899
Plantation Street South of Boylston Street	13,539
Salisbury Street East of Park Avenue	11,919
West Boylston Street at West Mountain Street	11,407
Mill Street at Chandler Street	9,728
Green Street at Winter Street	8,596
Airport Drive at Mill Street	5,564
Pleasant Street West of Park Ave	7,300
Pleasant Street East of Park Ave	10,384
Pleasant St. & Highland Ave. at Newton Square	29,802
Madison St between Washington and Harding	25,728

Source: Massachusetts Department of Transportation.

Worcester Street Infrastructure, 2021	
Streets (Miles)	
<i>Public Streets</i>	438
<i>Private Streets</i>	80
Sidewalks (Miles)	
<i>Asphalt</i>	306
<i>Concrete</i>	182
Street Lights	13,579
Parking Meters -- Smart Kiosks	Approximately 190
Electric Car Charging Plugs	73

Source: City of Worcester, City Council Manual, 2021; ChargeHub

Worcester Trash and Recycling, 2021	
Trash Disposal Tonnage	26,150
Single Stream Recyclables Tonnage	10,926
Yard Waste Tonnage	4,293

Source: Massachusetts Department of Environmental Protection

Worcester Regional Airport, ORH, 2021	
Aircraft Operations - Number of Flights	
Transient General Aviation	9,986
Local General Aviation	6,943
Air Taxi	1,359
Commercial	728
Military	1881
Number of Commercial Passengers	27,791
Aircraft Based at Field	
Single Engine Planes	53
Multi-Engine Planes	7

Source: Worcester Regional Airport

Worcester Water and Sewer Infrastructure, 2021	
Miles of Water Main Pipe	634
Reservoirs	10
Fire Hydrants	
<i>Public</i>	5,365
<i>Private</i>	495
Total Miles of Sewer Pipes	834
<i>Sanitary Sewers</i>	400
<i>Surface Sewers</i>	374
<i>Combined Sewers</i>	61
Number of Manholes	28,293
Number of Catch Basins	16,138

Source: City of Worcester, City Council Manual 2020

Worcester Municipal Parking Garages Capacity, 2021	
Pearl Elm	819
Federal Plaza	511
Major Taylor Boulevard	983
Union Station	500
Worcester Common	500

Source: City of Worcester Comprehensive Annual Financial Report, June 30, 2021

Worcester: Rideshare Data, 2019	
Rides Started in Worcester	1,606,509
Rides Within Worcester	1,327,546
Rides Ended in Worcester	1,564,526
Rides Started per person	8.87
Rides Ended Per Person	8.64
Average Miles Per Hour	21
Average Miles from Start	2.8
Average Minutes from Start	7.9

Source: Commonwealth of Massachusetts, Department of Public Utilities

Worcester: Taxi and Livery Service, June 2022	
Taxi Medallions	110
Taxi Drivers	99
Registered Livery Vehicles	12
Livery Drivers	20

Source: Worcester Police Department.

Greater Worcester: Registered Motor Vehicles, 2021	
	Total Vehicles
Auburn	17,218
Boylston	5,656
Grafton	17,209
Holden	17,770
Leicester	10,821
Millbury	13,630
Paxton	4494
Shrewsbury	32,390
West Boylston	7,281
Worcester	118,101

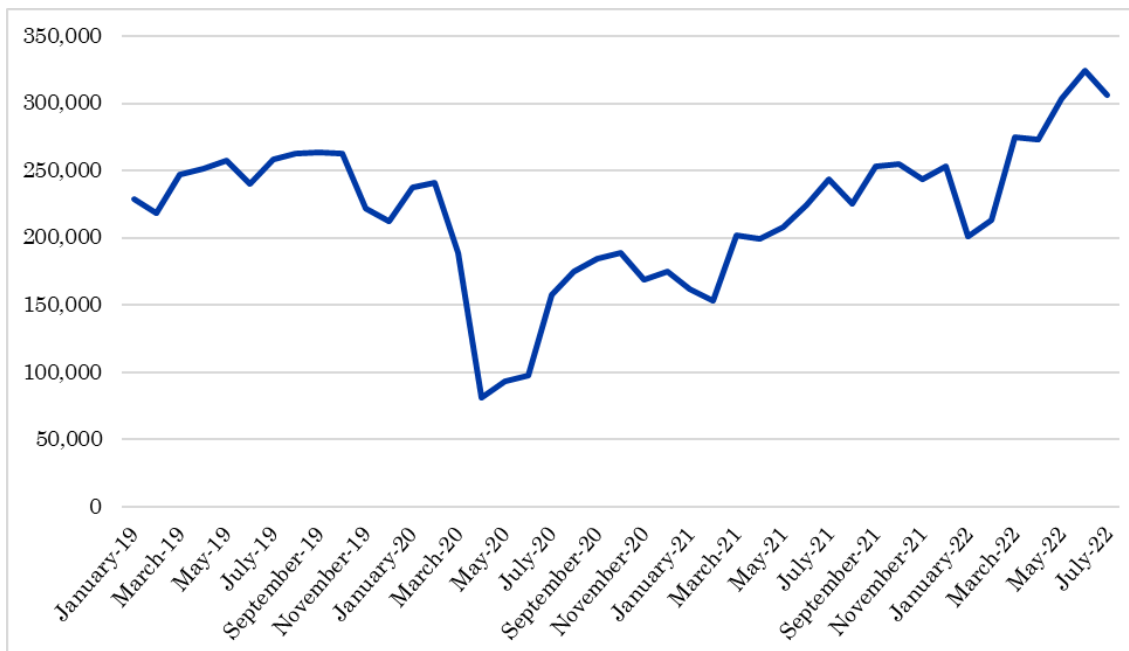
Source: Massachusetts Registry of Motor Vehicles

Worcester Regional Transit Authority, FY2021	
Service Area	14,111,090
Number of Towns Served	37
Population Served	578,732
Key Data	
Annual Passenger Miles	9,888,123
Annual Unlinked Passenger Trips	2,294,442
Average Weekday Unlinked Passenger Trips	7,841
Average Saturday Unlinked Passenger Trips	4,040
Average Sunday Unlinked Passenger Trips	2,009
Annual Vehicle Revenue Miles	2,642,594
Annual Vehicle Revenue Hours	212,521
Vehicles Operated	94
Vehicles Available	136
Number of Electrics	3
Number of Clean Diesel Buses	34
Number of Hybrid Diesel-Electric Buses	16

Source: Worcester Regional Transit Authority

The Worcester Regional Transit Authority (WRTA) was established in September 1974 to contract for the operation of mass transportation facilities and services in the Worcester region. It is the second largest regional transit authority in Massachusetts, serving 37 communities. While the WRTA owns the facilities and rolling stock, the organization contracts with Central Mass Transit Management, Inc., and Paratransit Brokerage Services, Transit Management Inc. for the provision of services.

Monthly Ridership: Worcester Regional Transit Authority, 2019-2022



Source: Worcester Regional Transit Authority

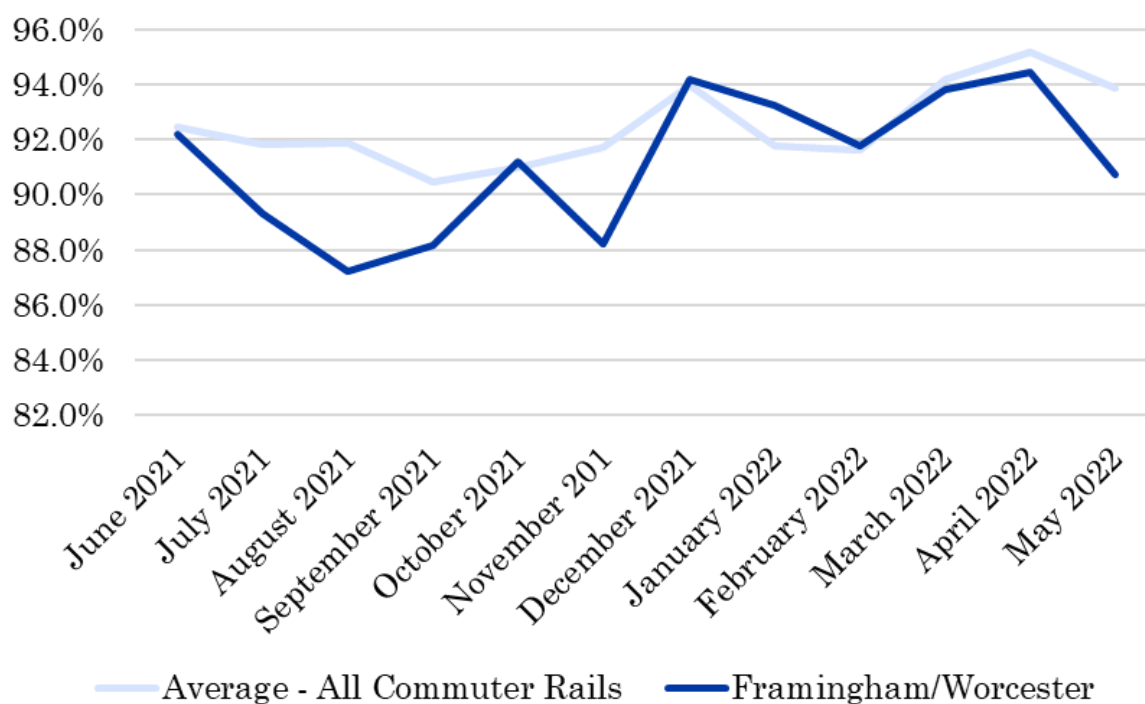
As of March 2022, ridership has surpassed and maintained pre-pandemic levels.

The WRTA suspended fare collection in March of 2020 during the height of COVID-19 and has continued the fare suspension since that point.

Worcester Commuter Rail: Spring/Summer 2022	
Inbound Trains (Weekday)	17
Outbound Trains (Weekday)	17
Inbound Trains (Weekend & Holiday)	10
Outbound Trains (Weekend & Holiday)	10

Source: Massachusetts Bay Transportation Authority.

MBTA Commuter Rail: On Time Performance With-in 5 Minutes, June 2021—May 2022



Source: Massachusetts Bay Transportation Authority.

MBTA Framingham/Worcester Commuter Rail, 2022	
Estimated Daily Ridership, Weekdays 7/25 - 7/29	9,960
Estimated Percent of Ridership Counts in 2018	53%

Source: Massachusetts Bay Transportation Authority.

Central Transportation Planning Staff collects data on MBTA ridership. It is estimated that ridership from July 25 - July 29, 2022 represents approximately 53% of ridership from 2018 (pre-COVID-19).

The Framingham/Worcester Commuter Rail line was the second highest of the twelve commuter rail lines.



Arts, Culture, & Sports

Worcester Cultural Coalition Members, by sector 2022

Art Service Organizations		Performing Arts	
American for the Arts		4th Wall Stage Company	
Art in the Park, Worcester		All Saints Music Series	
ArtReach		Apple Tree Arts	
ArtsWorcester		Arts on the Green	
Calliope Productions, Inc.		Arts Transcending Borders at The College of the Holy Cross	
CENTRO Inc.		Assabet Valley Mastersingers	
Creative Hub Worcester Inc.		Assumption College – Human Arts	
Crocodile River Music		Calliope Productions, Inc.	
Guardians of Traditions		Central Massachusetts Jewish Theatre Company	
Hellenic Arts Society		Clark Arts	
Main IDEA		Crocodile River Music	
Mass Cultural Council		Flamenco Worcester	
MASSCreative		Greater Worcester Opera, Inc.	
Master Singers of Worcester		Guardians of Traditions	
New England Foundation for the Arts		Hellenic Arts Society	
New England Jazz Enrichment Foundation		Joy of Music	
No Evil Project		Master Singers of Worcester	
Pakachoag Music School of Greater Worcester		Mechanics Hall	
qFLIX USA, Inc.		Music Worcester, Inc.	
Ritmos Dance Studio Inc.		New England Jazz Enrichment Foundation	
Southeast Asian Coalition of Central Massachusetts		New England Symphony Orchestra	
stART on the Street		Pakachoag Music School of Greater Worcester	
Technocopia		Ritmos Dance Studio Inc.	
The Hanover Theatre and Conservatory for the Performing Arts		Salisbury Singers, Inc.	
The Shakespeare Concerts		Studio Theatre Worcester	
ValleyCAST		The Hanover Theatre and Conservatory for the Performing Arts	
Worcester Arts Council		The Shakespeare Concerts	
Worcester Caribbean American Carnival Association		ValleyCAST	
Worcester Center for Crafts		VOX New England	
Worcester Hip Hop Congress		WCCA TV “The People’s Channel”	
Worcester Youth Orchestras, Inc.		WCLOC Theater Company	
Literature & Poetry		Worcester Chamber Music Society	
American Antiquarian Society		Worcester Children’s Chorus	
Hellenic Arts Society		Worcester Music Academy	
Southeast Asian Coalition of Central Massachusetts		Worcester State University Visual and Performing	
Technocopia		Worcester Youth Orchestras, Inc.	
The Shakespeare Concerts			
Worcester County Poetry Association			

Continued on next page

Source: Worcester Cultural Coalition.

Worcester Cultural Coalition Members, by sector 2022

Education & Libraries		Museums & Galleries	
	African Community Education		ArtsWorcester
	Higgins School of Humanities at Clark University		Iris and B. Gerald Cantor Art Gallery, College of the Holy Cross
	The Hanover Theatre and Conservatory for the Performing Arts		Museum of Russian Icons
	Creative Hub Worcester Inc.		Old Sturbridge Village
	Pakachoag Music School of Greater Worcester		Southeast Asian Coalition of Central MA
	Crocodile River Music		Sprinkler Factory
	Preservation Worcester		ValleyCAST
	Worcester Public Library		Worcester Art Museum
	Technocopia		Worcester Historical Museum
	Southeast Asian Coalition of Central Massachusetts		Worcester State University Visual and Performing Arts
	Guardians of Traditions	Science and Nature	
	Assumption College – Human Arts		ArtReach
	WSU Visual and Performing Arts		EcoTarium
	Worcester Music Academy		Mass Audobon Broad Meadow Brook Conservation Center & Wildlife Sanctuary
	Worcester Polytechnic Institute		Mass Audobon Wachusett Meadow Wildlife Sanctuary
	American Antiquarian Society		Regional Environmental Council (REC)
Media			Technocopia
	90.5 WICN		Tower Hill Botanic Garden
	AVATAR Computing, Inc.		ValleyCAST
	MassDiGI at Becker College		
	qFLIX USA, Inc.		
	Shawna E. Shea Memorial Foundation Inc.		
	Technocopia		
	WCCA TV "The People's Channel"		
	WCUW		
History & Heritage			
	African Community Education		
	American Antiquarian Society		
	Guardians of Traditions		
	Hellenic Arts Society		
	Mechanics Hall		
	Old Sturbridge Village		
	Preservation Worcester		
	Ritmos Dance Studio Inc.		
	Saint Spyridon Greek Orthodox Cathedral		
	Southeast Asian Coalition of Central Massachusetts		
	ValleyCAST		
	Worcester Historical Museum		
	Worcester Women's History Project		

Worcester Cultural Coalition — The Worcester Cultural Coalition is a public-private partnership established in 1999 between the City of Worcester and 12 cultural organizations. Its mission is to draw on Worcester's rich and diverse cultural assets to foster economic revitalization, support active, creative engagement for all and promote a strong cultural identity for Greater Worcester.

In 2018, the City of Worcester, Worcester Cultural Coalition, and the Greater Worcester Community Foundation partnered to craft a 10-year cultural plan for the City of Worcester. Published in 2019, *Becoming Worcester: The Evolution of a Creative City*, outlines 20 priorities for the next decade.

1. Shape and tell the “Worcester Story” through a cohesive image and brand that reflects and highlights the City’s many strengths
2. Install branding and wayfinding that welcomes people to Worcester at key entrances to the City and to distinctive neighborhoods
3. Promote neighborhoods based on their unique assets—like cultural spaces, history, college campuses, events, parks, architecture, food, restaurants, and shopping
4. Identify existing neighborhood nodes that are gathering places for our wide range of geographically and ethnically based communities
5. Work with City agencies and civic groups to enhance connections and communications with our colleges & universities, the airport, hotels, and the cultural sector
6. Expand implementation of the complete streets policy, and continue streetscape updating throughout the City, prioritizing areas adjacent to schools and public gathering places
7. Work collaboratively to deliver improvements to the City’s public transportation system to help people efficiently get to all areas of the City
8. Engage with business and property owners to activate empty storefronts as creative spaces and provide opportunities for collaboration between artists, residents, businesses, and community organizations
9. Engage “9-to-5ers” downtown by encouraging business as well as civic and cultural groups to offer incentives to participate in activities and organizations after work
10. Expand municipal Public Art program to include a “Percent for Art” requirement for state and municipal capital construction projects
11. Improve City regulations to make public spaces more user-friendly for organized events, and encourage an expanded mix and range of public space programming
12. Incorporate universal design standards in exhibition, performance, and event planning
13. Advocate for affordable housing across the City, and support development of a “creative village” with artist live-work spaces
14. Actively promote the value and importance of diversity that is fully representative of the City on municipal and community-wide boards, committees, and other decision-making bodies
15. Actively promote the value and importance of diversity that is fully representative of the community on local non-profit boards, community coalitions, and other communal organizations
16. Partner with the college and university admissions offices to promote Worcester as a desirable destination for prospective students
17. Strengthen partnerships to establish clear guidelines and create more pathways for artists and cultural organizations to enrich the lives of students and their families both during an after school
18. Provide development services and investment funds for new creative enterprises
19. Design and launch an artist-in-residence program in such environments as municipal government, business, and neighborhoods to incorporate creative design on the front-end of projects
20. Advocate for an allocation in the City budget to support public art, artist residencies and special events which support creative placemaking

Source: Worcester Cultural Coalition, Becoming Worcester

Worcester: Bravehearts Baseball, 2021

Record			Attendance	
<i>Wins</i>	<i>Losses</i>	<i>Percentage</i>	<i>Total</i>	<i>Average Per Game</i>
32	33	0.492	36,875	1,229

Sources: Futures Collegiate Baseball League of New England (FCBL).

Worcester: Railers Hockey, 2021

Record				
<i>Wins</i>	<i>Losses</i>	<i>Overtime Losses</i>	<i>Shootout Losses</i>	<i>Percentage</i>
32	32	5	2	0.5
Attendance				
The Railers Ranked 10th in the ECHL in attendance averaging 4,074 attendees per game.				

Sources: East Coast Hockey League (ECHL).

Worcester: Massachusetts Pirates Arena Football, 2021

Record		
<i>Wins</i>	<i>Losses</i>	<i>Percentage</i>
11	5	0.688
Notes		
On August 19, 2020 the Pirates moved to the Indoor Football League and signed a three year extension to remain in Worcester at the DCU Center for the 2021 season.		

Sources: Indoor Football League (IFL).

Worcester Red Sox, 2021

Record			Attendance	
<i>Wins</i>	<i>Losses</i>	<i>Percentage</i>	<i>Total</i>	<i>Average Per Game</i>
74	54	0.578	362,559	6,145
Notes				
Worcester Red Sox finished third in the Northeast Division and finished sixth out of 120 teams in overall attendance for Minor League Baseball.				

Sources: Worcester Red Sox, the Baseball Cube, and Stats Crew.

Greater Worcester: High School Sports Highlights, 2021
Hopedale Girls' Basketball: D-5 State Championship
Uxbridge Field Hockey: D-4 State Championship
Leominster Baseball: Central D-1
Tahanto Baseball: Central D-4
Algonquin [2022] Girls Ice Hockey: D-2 State Championship
Bromfield Girls Lacrosse: Central West D-2
Algonquin Boys Rugby: D-2
Bromfield School Boys Soccer: D-5 State Championship
Sutton High Girls Soccer: D-5 State Championship
Wachusett Softball: Central Division 1
Hopedale Softball: Central Division 3
St. John's HS Wrestling: Central Division 1

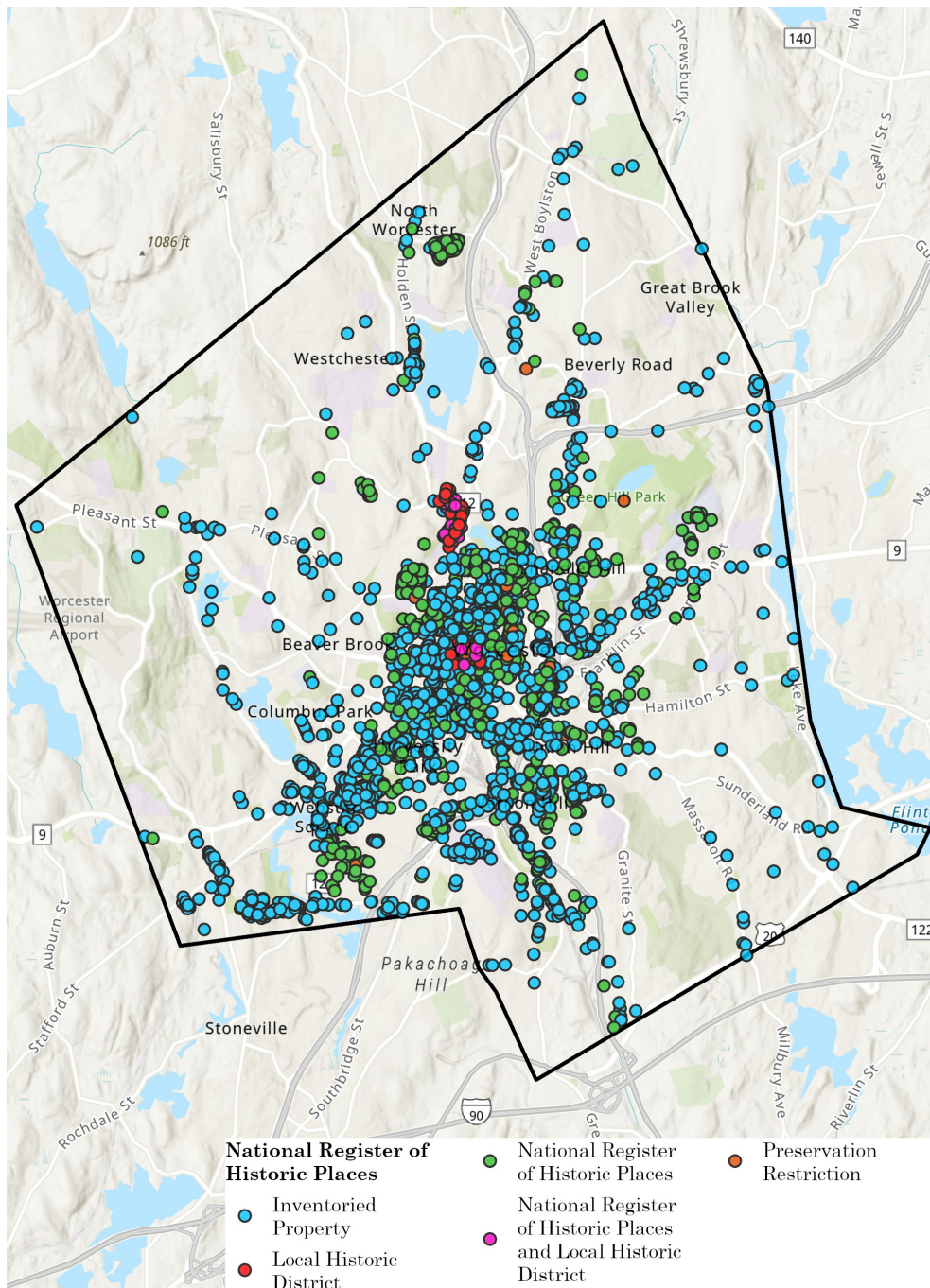
Source: Massachusetts Interscholastic Athletic Association

Greater Worcester: College League Athletic Achievements, 2021-2022
Holy Cross Football: Patriot League Championship
WPI Men's Basketball: NEWMAC League Championship
Worcester State Men's Cross Country: MASCAC League Championship
Nichols Men's Basketball: Commonwealth Coast Conference Championship
Nichols Men's Tennis: Commonwealth Coast Conference Championship

Source: NCAA Conference Websites

The National Historic Preservation Act of 1966 established the National Park Service's National Register of Historic Places, a list of the nation's historic sites to facilitate public and private efforts to identify, evaluate, and protect historic and archeological buildings and properties. According to the National Park Service, listing on the National Register of Historic Places imposes no restrictions on what a non-federal owner may do with the property up to and including destruction, unless the property is involved in a project that receives federal assistance through funding or licensing/permitting.

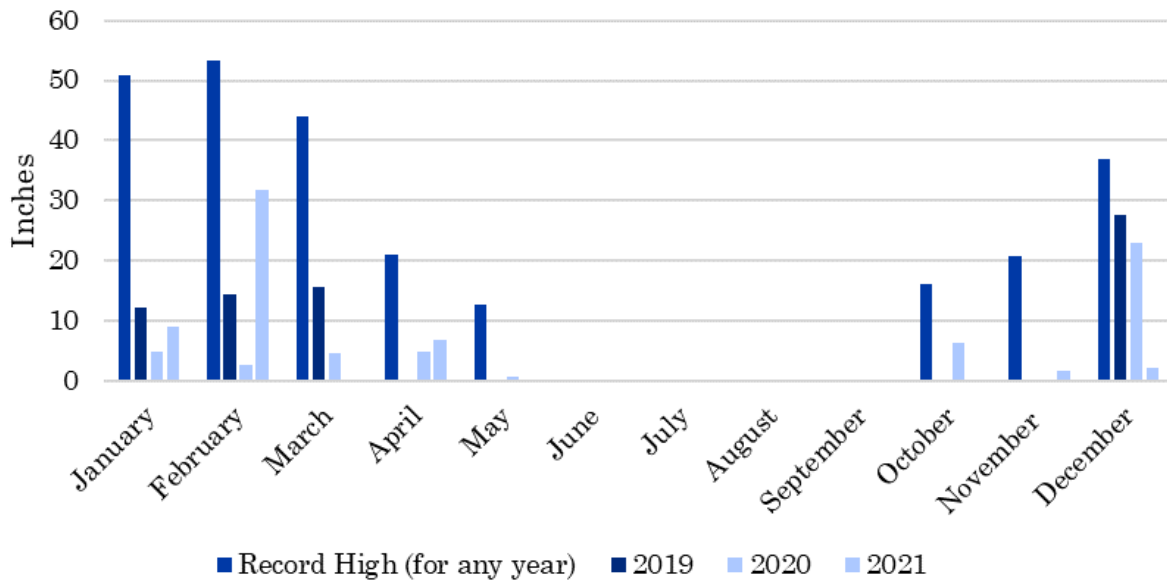
Worcester: Properties on the National Register of Historic Places



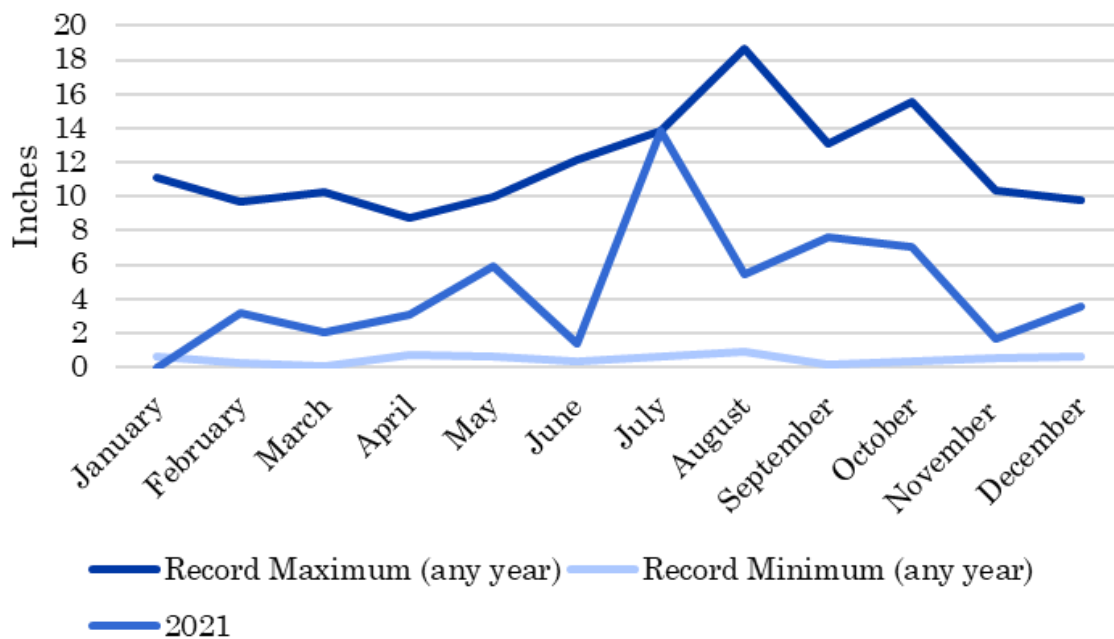
Source: Massachusetts Cultural Resource Information System.



Weather, Geography, & Environment

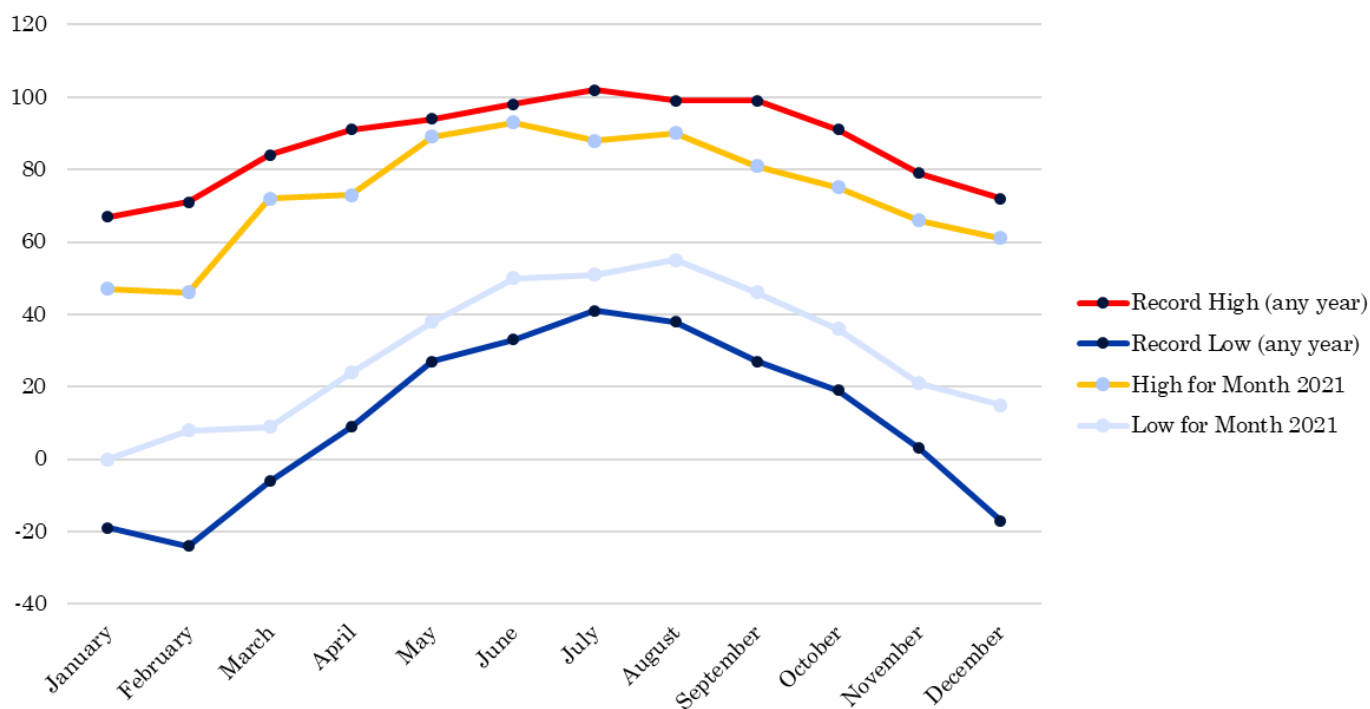
Worcester: Snowfall & Record High by Month, 2019-2021


Source: National Weather Service, National Oceanic & Atmospheric Administration.

Worcester: Precipitation by Month, 2021


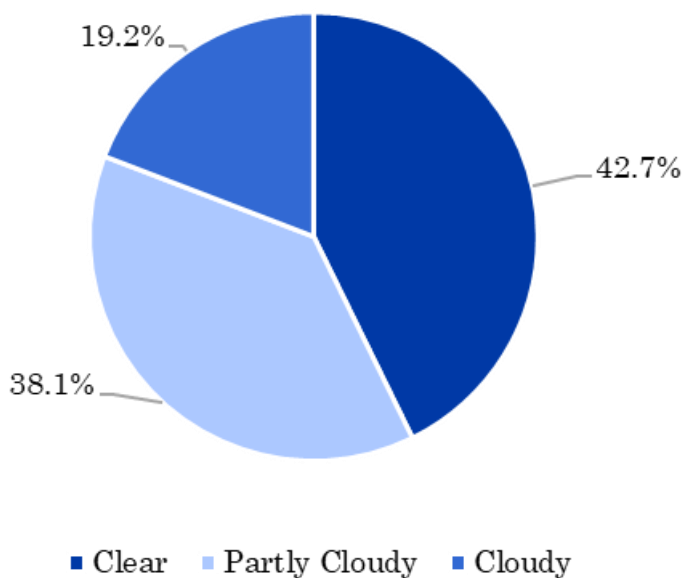
Source: National Weather Service, National Oceanic & Atmospheric Administration.

Worcester: Average High and Low Temperatures Compared to Record, 2021



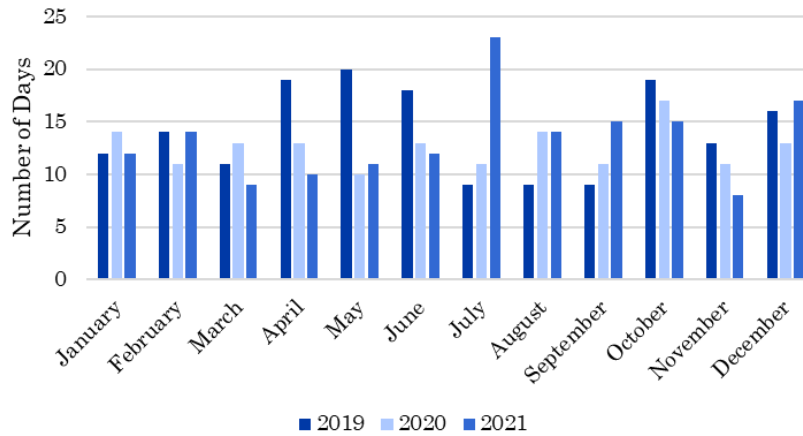
Source: National Weather Service, National Oceanic & Atmospheric Administration.

Worcester: Clear Days, 2021



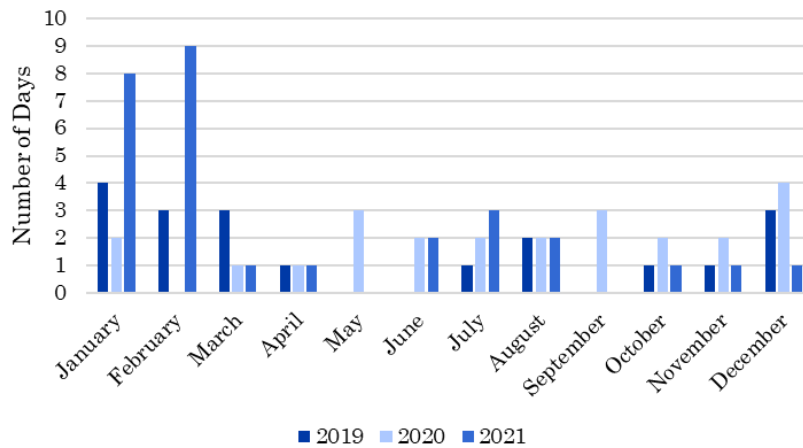
Source: National Oceanic & Atmospheric Administration.

Worcester: Fog, Ice Fog, or Freezing Fog, 2019-2021



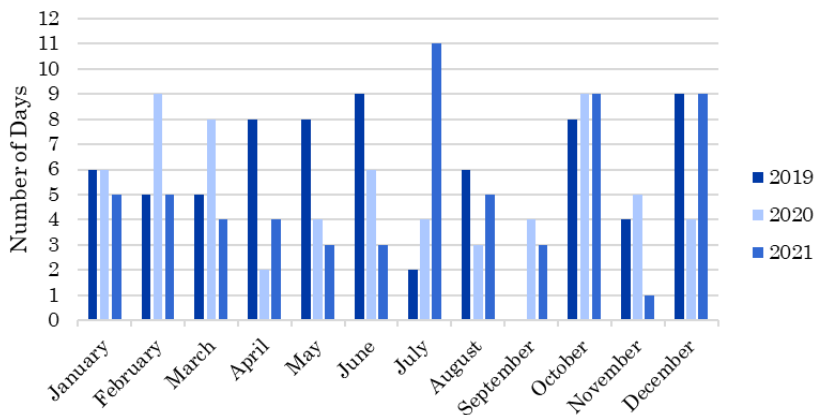
Source: National Centers for Environmental Information, NOAA

Worcester: Smoke or Haze, 2019-2021



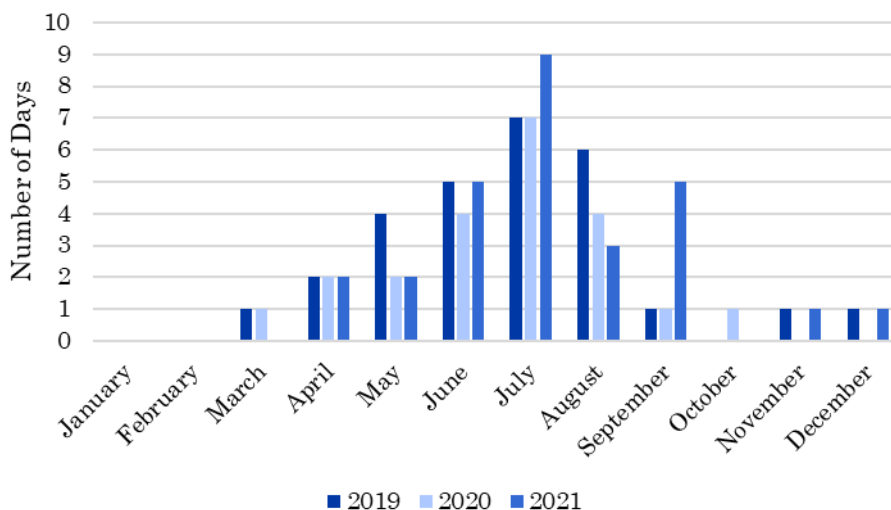
Source: National Weather Service, NOAA

Worcester: Heavy Fog, 2019-2021



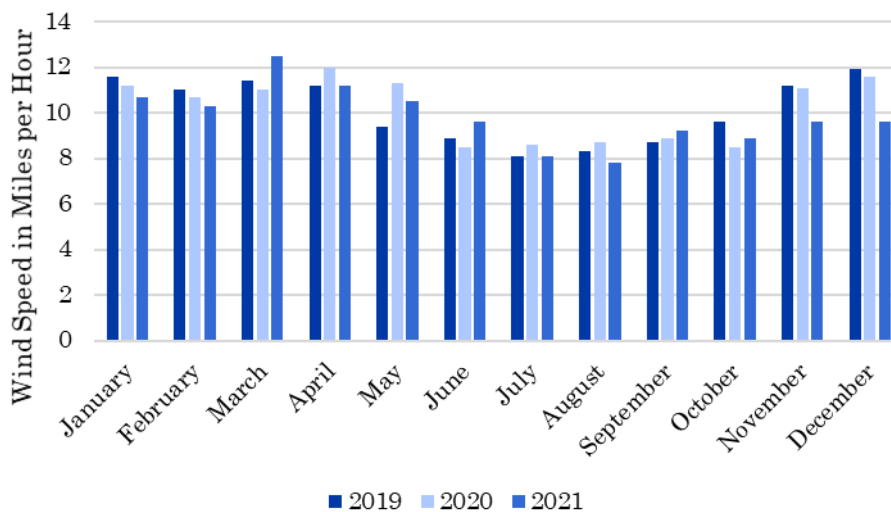
Source: National Centers for Environmental Information, NOAA

Worcester: Number of Days with Thunder, 2019-2021



Source: National Centers for Environmental Information, NOAA

Worcester: Average Wind Speed Per Month, 2019-2021



Source: National Centers for Environmental Information, NOAA

Worcester: Lakes, Rivers, Ponds, Brooks, and Waterfalls	
Lakes	
	Indian Lake
	Lake Quinsigamond
Rivers	
	Blackstone River
	Middle River
	Quinsigamond River
Ponds	
	Bell Pond
	Burncoat Park Pond
	Cider Mill Pond
	Coes Pond
	Cook Pond (Thayer's Reservoir)
	Curtis Pond
	Flint Pond
	Green Hill Pond
	Jamesville Pond
	Leesville Pond
	Meres Ponds at Elm Park
	Patch Pond
	Salisbury Pond
	Smith Pond
Streams and Brooks	
	Beaver Brook
	Broad Meadow Brook
	Coal Mine Brook
	Kettle Brook
	Mill Brook
	Poor Farm Brook
	Tatnuck Brook
	Weasel Brook
Waterfalls	
	The Cascade

Source: City of Worcester Open Space and Recreation Plan, 2020.

Worcester's Hills
Airport Hill
Bancroft Hill (Bell Hill)
Grafton Hill
Green Hill
Pakachoag Hill
Vernon Hill
Indian Hill
Newton Hill
Poet's Hill
Wigwam Hill
Union Hill
Prospect Hill

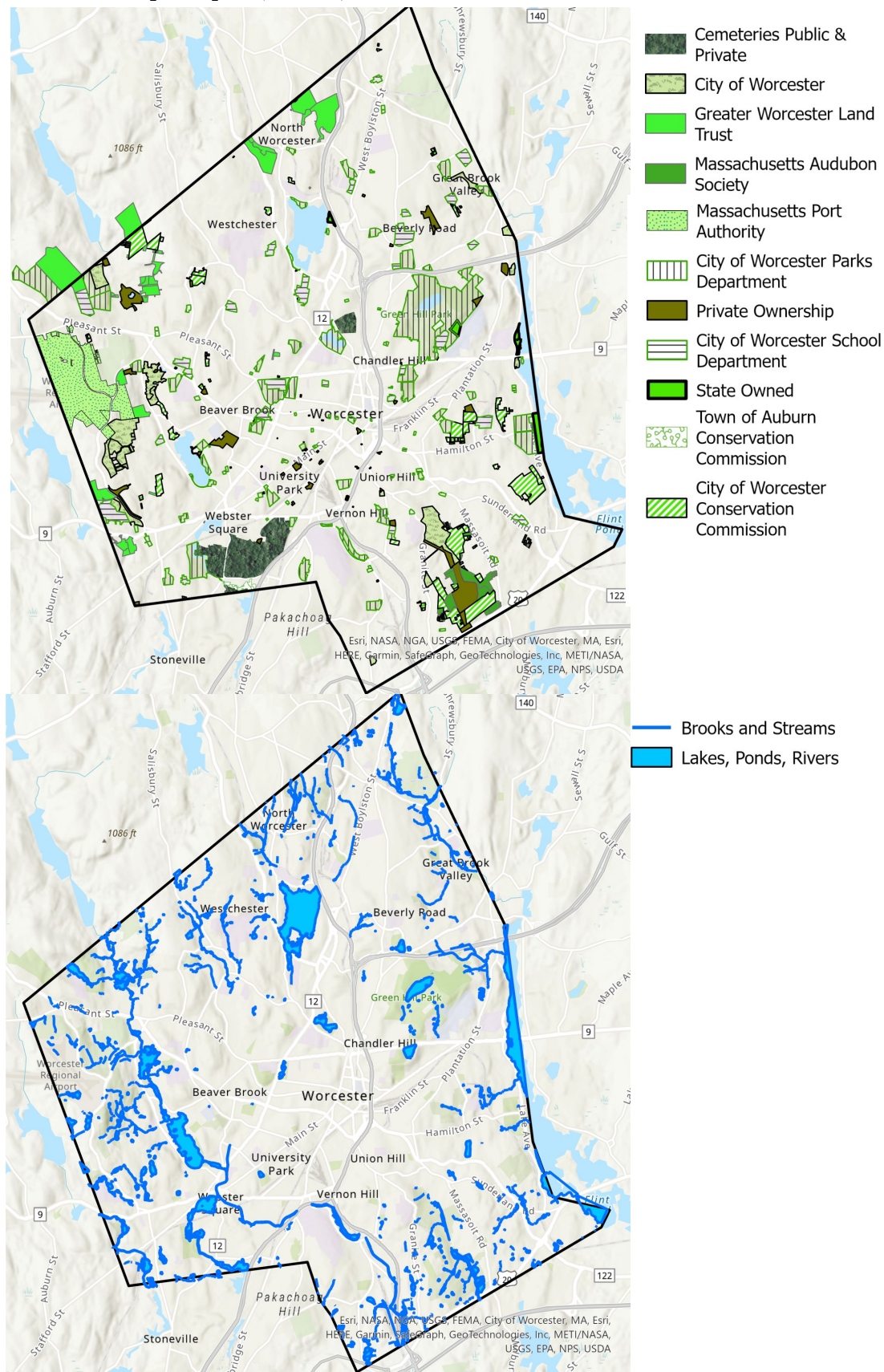
Source: City of Worcester Open Space and Recreation Plan, 2013

Worcester is located at the headwaters of the Blackstone River and is part of the Blackstone River Watershed. The watershed includes a 640 square mile basin, receiving water from 29 towns in Central Massachusetts and Rhode Island.

Worcester is famous for its hills, and by popular myth, the city is said to have seven hills like Ancient Rome. In reality, Worcester has 12 named hills.

The City of Worcester released a draft of its Open Space and Recreation Plan 2020-2027. It is available here: <http://www.worcesterma.gov/parks/document-center>.

Worcester: Open Space, Parks, & Water



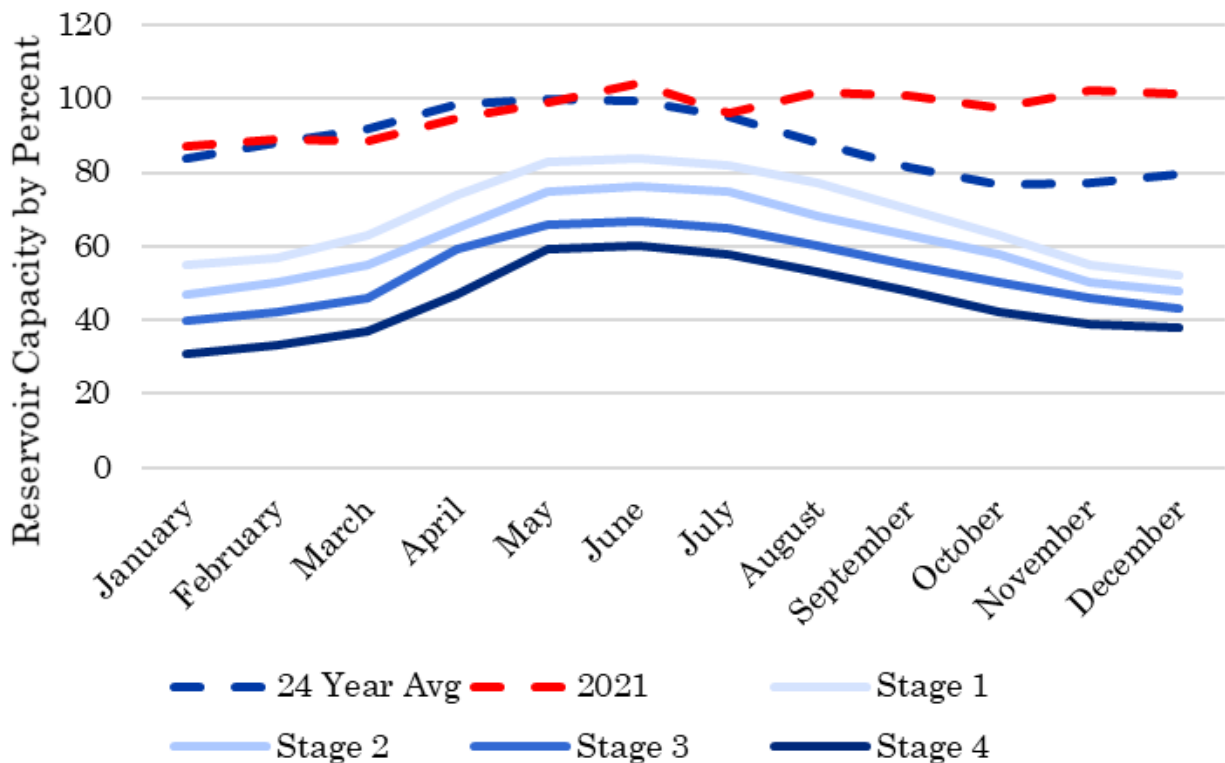
Source: GIS Data—City of Worcester, MA

Worcester Regional Research Bureau

Worcester: Reservoirs - Surface Water & Capacity		
<i>High Service</i>		
	Surface Water (acres)	Capacity (gallons)
Lynde Brook	131.8	717,422,000
Kettle Brook, No. 1	11.5	19,307,000
Kettle Brook, No. 2	30.8	127,310,000
Kettle Brook, No. 3	37.4	152,306,000
Kettle Brook, No. 4	118.6	513,746,000
<i>Low Service</i>		
Holden, No. 1	129.8	720,319,000
Holden, No. 2	52.6	257,398,000
Kendall	175	792,163,000
Pine Hill	345.3	2,970,966,000
Quinapoxet	280	1,100,000,000

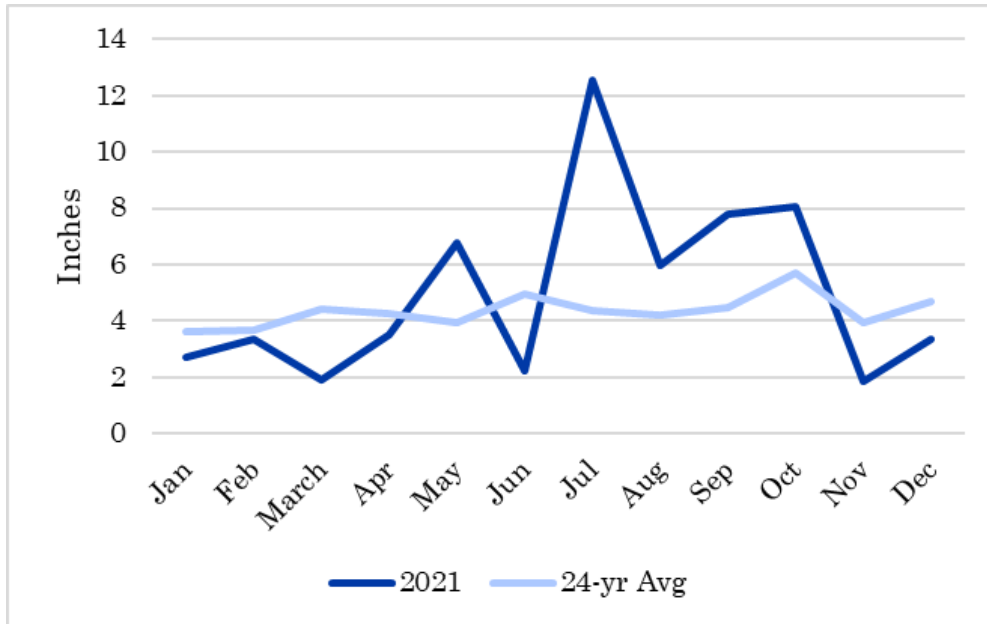
Source: City of Worcester, Department of Public Works and Parks.

Worcester: Reservoir Capacity versus Drought Stages, 2021



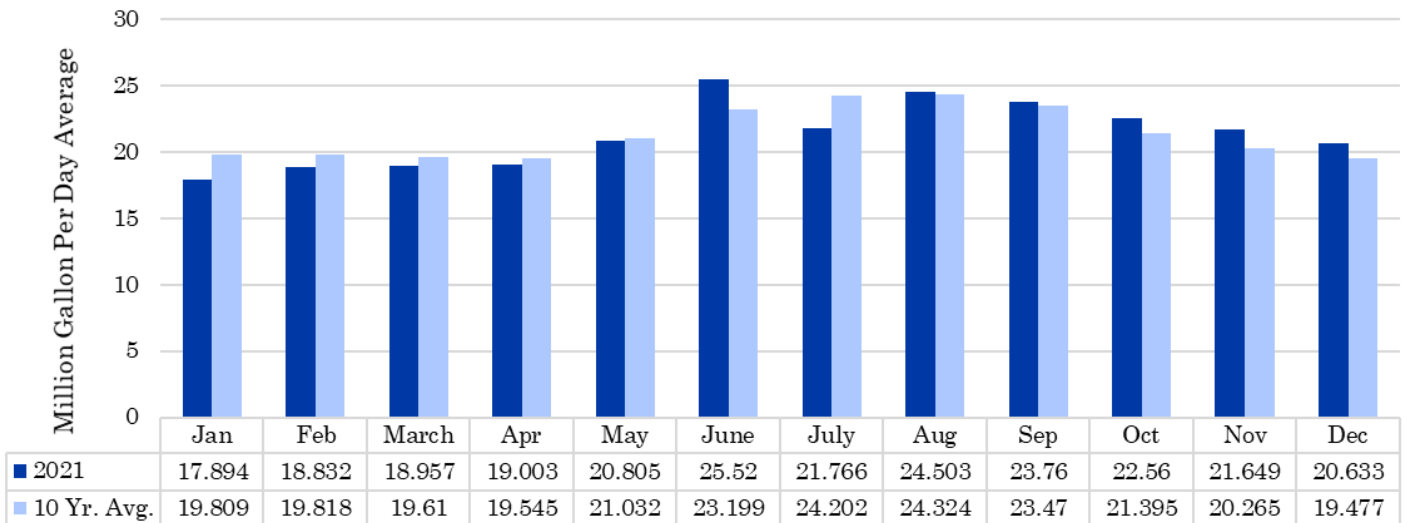
Source: City of Worcester, Department of Public Works and Parks.

Worcester: Monthly Average Rainfall versus 24 Year Average, 2021



Source: City of Worcester Department of Public Works and Parks.

Worcester: Monthly Average Water Consumption versus 10 Year Average, 2021



Source: City of Worcester Department of Public Works and Parks.

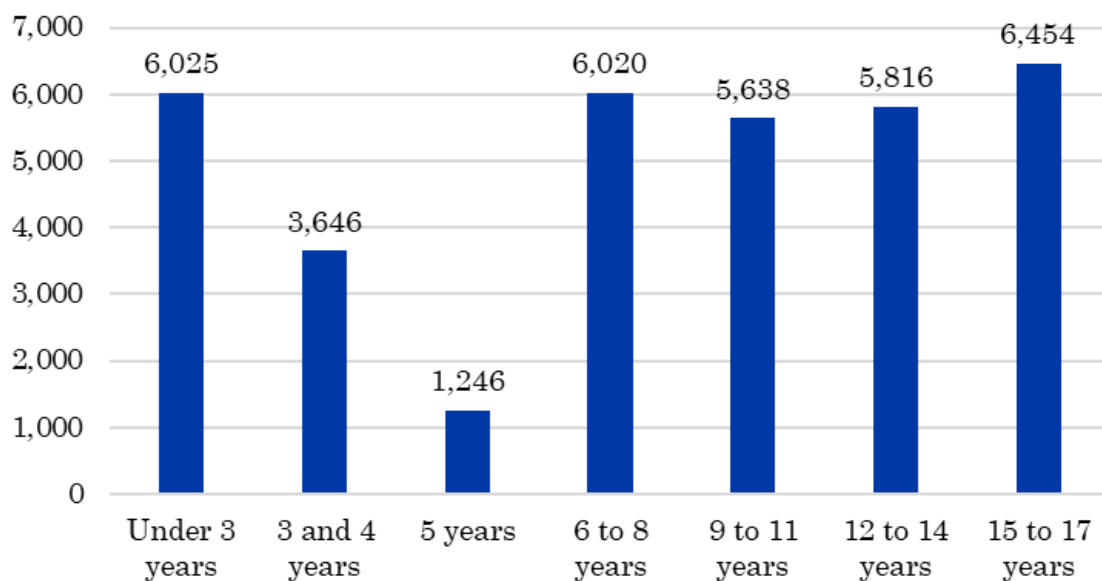


Appendix I

A Focus on Children

A Focus on Children is an addition to *The Worcester Almanac* derived from conversations with youth-serving organizations as well as the Greater Worcester Community Foundation. The goal of this section is to highlight those factors affecting young people, so that policymakers and practitioners can address the challenges impacting our future civic leaders. This section will grow and change over time as new issues and opportunities are identified and new connections are made between data and public policy.

Worcester: Children in Household by Age, 2020

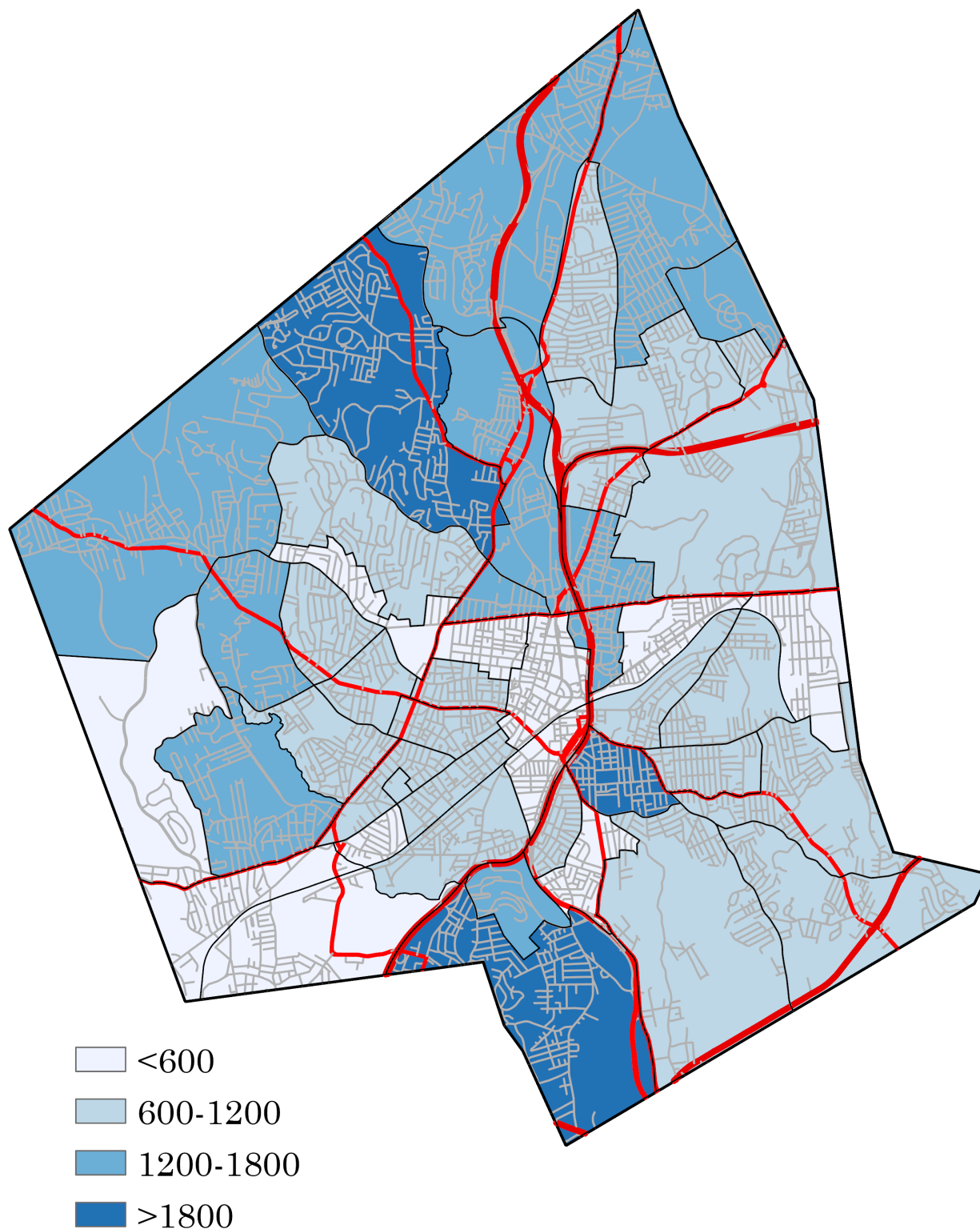


Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Under-18 Population in Households, 2020	34,825
In Married-couple Family Household	47.7%
In male householder, no spouse present, family household	8.6%
In female householder, no spouse present, family household	43.4%
In Owner-Occupied Units	41.4%
In Renter-Occupied Units	58.6%
Native Born	92.8%
Foreign Born	7.2%
On Public Assistance	42.9%
Below the Poverty Level	25.5%
With a Disability	6.2%

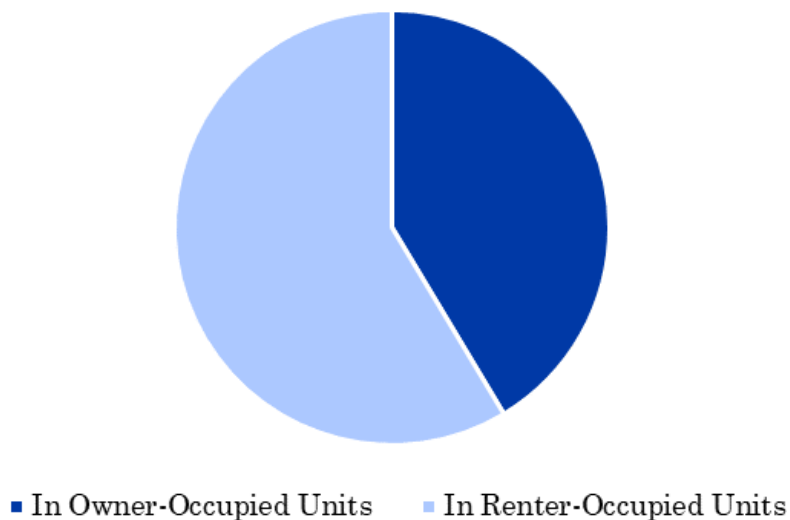
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Children under 18 Years of Age by Census Tract, 2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Children under 18 Years of Age—Housing, 2020

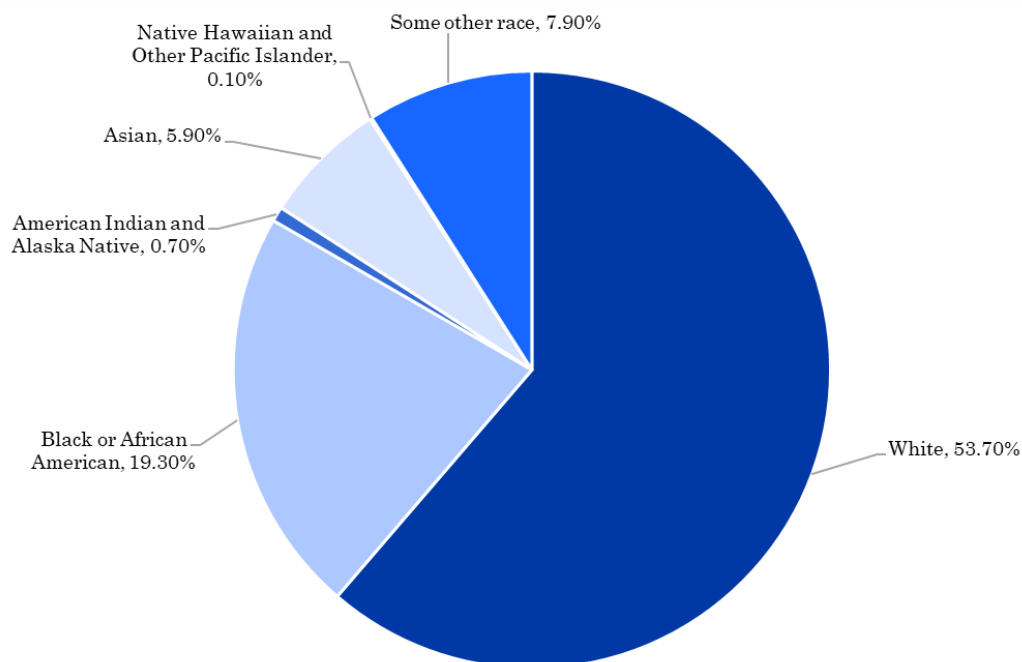


Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Annual City of Worcester Point-In-Time, January 29, 2020					
	Sheltered			Unsheltered	Total
	Emergency Shelter	Transitional Housing	Safe Haven		
Number Homeless Under Age 18	395	74	0	3	472

Source: Central Massachusetts Housing Alliance.

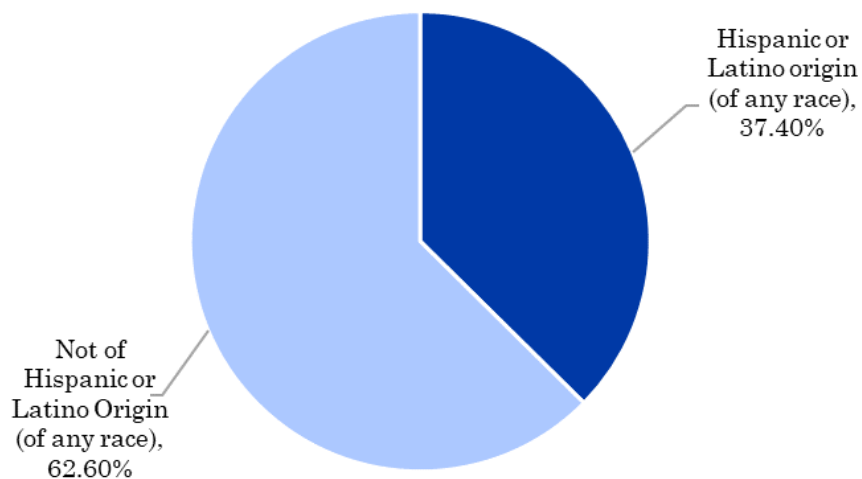
Worcester: Children Under 18 by Race, 2020



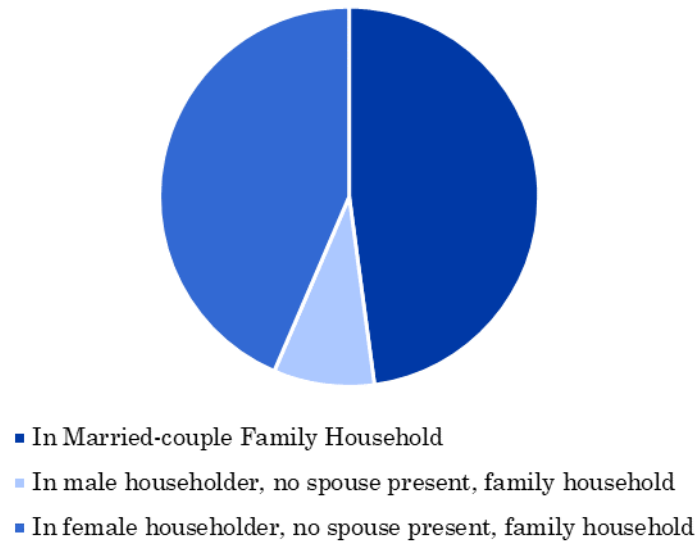
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

The U.S. Census Bureau tallies five categories of race: “American Indian or Alaska Native,” “Asian,” “Black or African American,” “Native Hawaiian or Other Pacific Islander,” and “White.” Hispanic origin is defined as ethnicity, rather than race, and persons defined as Hispanic or Latino can be of any race.

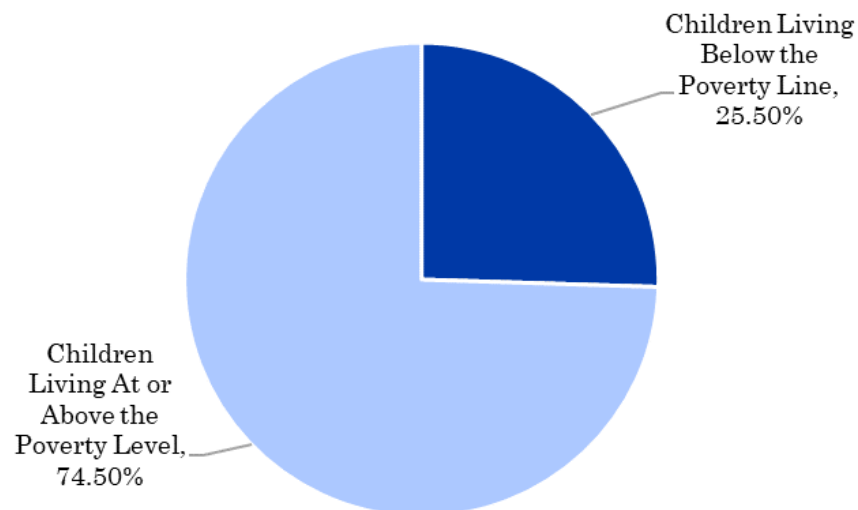
Worcester: Hispanic or Latino Origin for Children Under 18, 2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Children Under 18, Family Situation, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Poverty Status for Children under 18, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

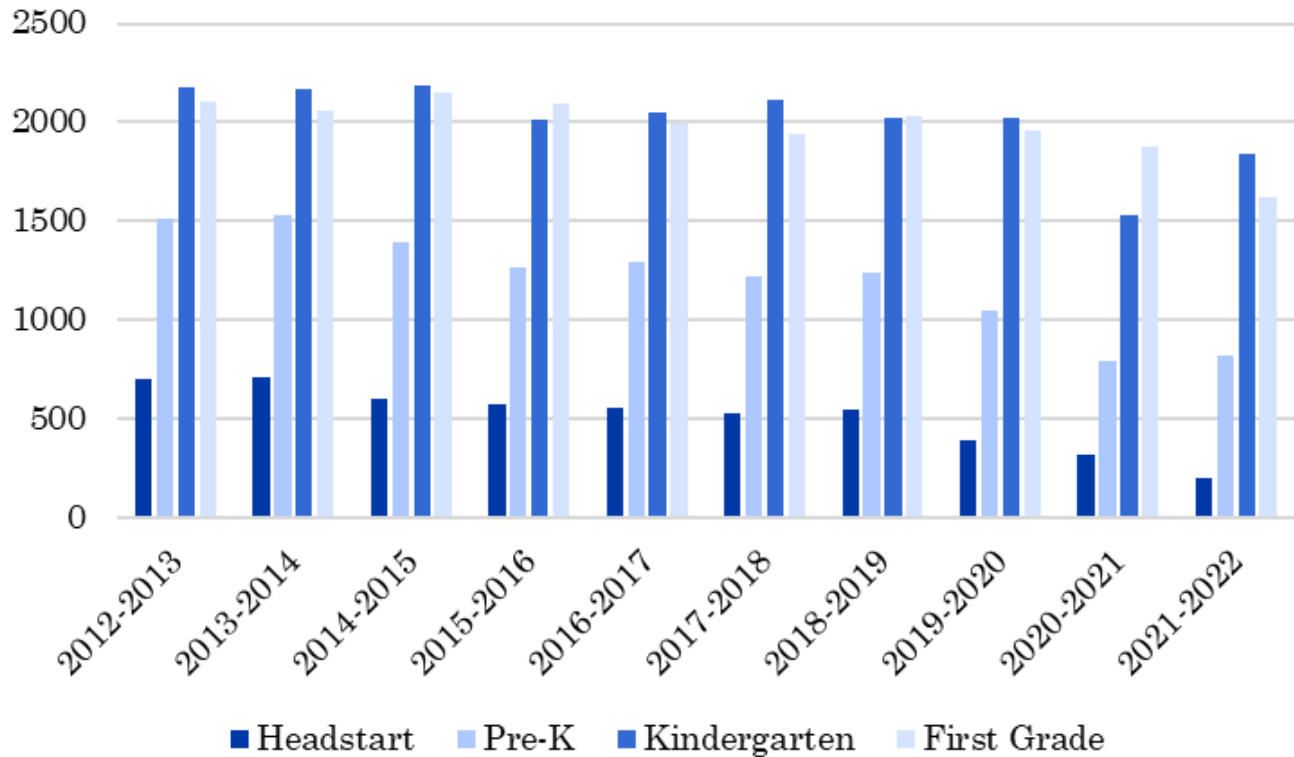
Mobility refers to students transferring in or out of public schools during the school year for reasons other than grade promotion. A large number of students moving in and out of a school can be very disruptive to the fulfillment of academic goals for the individual student and for all students as teachers work to make sure everyone is in the same place in the curriculum. To measure mobility, the Massachusetts Department of Elementary and Secondary Education uses these three measurements:

- Intake (Transfer-in) Rate: Number of students who enroll in district after start of school year
- Churn Rate: Number of students transferring in or out during school year
- Stability Rate: Number of students who stay in the district throughout the school year.

Worcester: Mobility Rates, 2021					
	Churn/ Intake Enroll	Percent Churn	Percent Intake	Stability Enroll	Percent Stability
All Students	25,111	10.1	5.7	24,076	94.5
Economically Disadvantaged	17,187	11.5	6.7	16,366	93.8
High Needs	20,665	11.2	6.5	19,701	94.0
LEP English Language Learner	7,726	14.2	8.2	7,272	92.3
Students with Disabilities	5,398	12.4	7.1	5,111	93.9
<i>Mobility by Race</i>					
African American/Black	4,311	10.7	6.5	4,109	94.4
American Indian or Alaskan Native	56	21.4	10.7	55	81.8
Asian	1,589	6.1	3.2	1,551	96.4
Hispanic or Latino	10,952	11.5	6.9	10,390	94.1
Multi-race, non-Hispanic or Latino	1,104	9.0	5.6	1,058	95.5
Native Hawaiian or Pacific Islander*	-	-	-	-	-
White	7,094	8.4	4.1	6,908	94.8

*Data for populations less than 6 not reported.

Source: Massachusetts Department of Elementary and Secondary Education.

Worcester: Participation in Early Childhood Education, 2012-2022

Source: Massachusetts Department of Elementary and Secondary Education.

Under the Head Start Act, children from birth to age five from families with incomes below the poverty line are eligible for Head Start and Early Head Start services. Children from homeless families, and families receiving public assistance such as Temporary Assistance for Needy Families (TANF) or Supplemental Security Income (SSI) are also eligible.

Worcester: School enrollment, 2020	
Nursery school, preschool	1,863
Kindergarten	1,687
Elementary: grade 1 to grade 4	7,153
Elementary: grade 5 to grade 8	7,762
High school: grade 9 to grade 12	9,097

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester: Student Discipline Report, 2020-2021						
Student Group	Students	Students Disciplined	Percent			
			In-School Suspension	Out-of-School Suspension	Emergency Removal	Expulsion
All Students	25,006	34	0	0.1	0.0	0.0
English Learner	7,679	11	0.1	0.1	0.0	0.0
Economically disadvantaged	17,109	25	0	0.1	0.0	0.0
Students w/disabilities	5,380	18	0.1	0.2	0.0	0.0
High needs	20,569	29	0.0	0.1	0.0	0.0
Female	12,192	11	0	0.1	0.0	0.0
Male	12,813	23	0	0.1	0.0	0.0
Amer. Ind. or Alaska Nat.	56	0	-	-	-	-
Asian	1,585	2	-	-	-	-
Afr. Amer./Black	4,290	7	0	0.1	0.0	0.0
Hispanic/Latino	10,901	20	0	0.1	0.0	0.0
Multi-race, Non-Hisp./Lat.	1,096	2	-	-	-	-
Nat. Haw. or Pacif. Isl.	5	-	-	-	-	-
White	7,073	3	-	-	-	-

*Data for populations less than 6 not reported.

Source: Massachusetts Department of Elementary and Secondary Education.

Explanation of Terms

In-school suspension: a disciplinary action that removes a student from participation in school activities for 1 day or more. Students suspended remain in school but are removed from academic classes and placed in a separate environment during their suspension.

Out-of-school suspension: a disciplinary action that removes a student from participation in all school activities, including after school activities, for at least one day, not to exceed 90 days in a school year. Students are not allowed on school grounds during their suspensions.

Emergency Removal: removing a student from school temporarily when a student is charged with a disciplinary offense and in the principal's judgement, the continued presence of the student poses a danger to persons or property, and substantially disrupts the order of the school, and, in the principal's judgment, there is no alternative available to alleviate the danger or disruption. An emergency removal shall not exceed two day past the student's removal from school.

Expulsion: a disciplinary action imposed by school officials to permanently remove a student from participation in all school activities. Student is ineligible to return to school. There were no expulsions listed for Worcester on the Department of Elementary and Secondary Education website for 2019-2020 as of 9/24/2021.

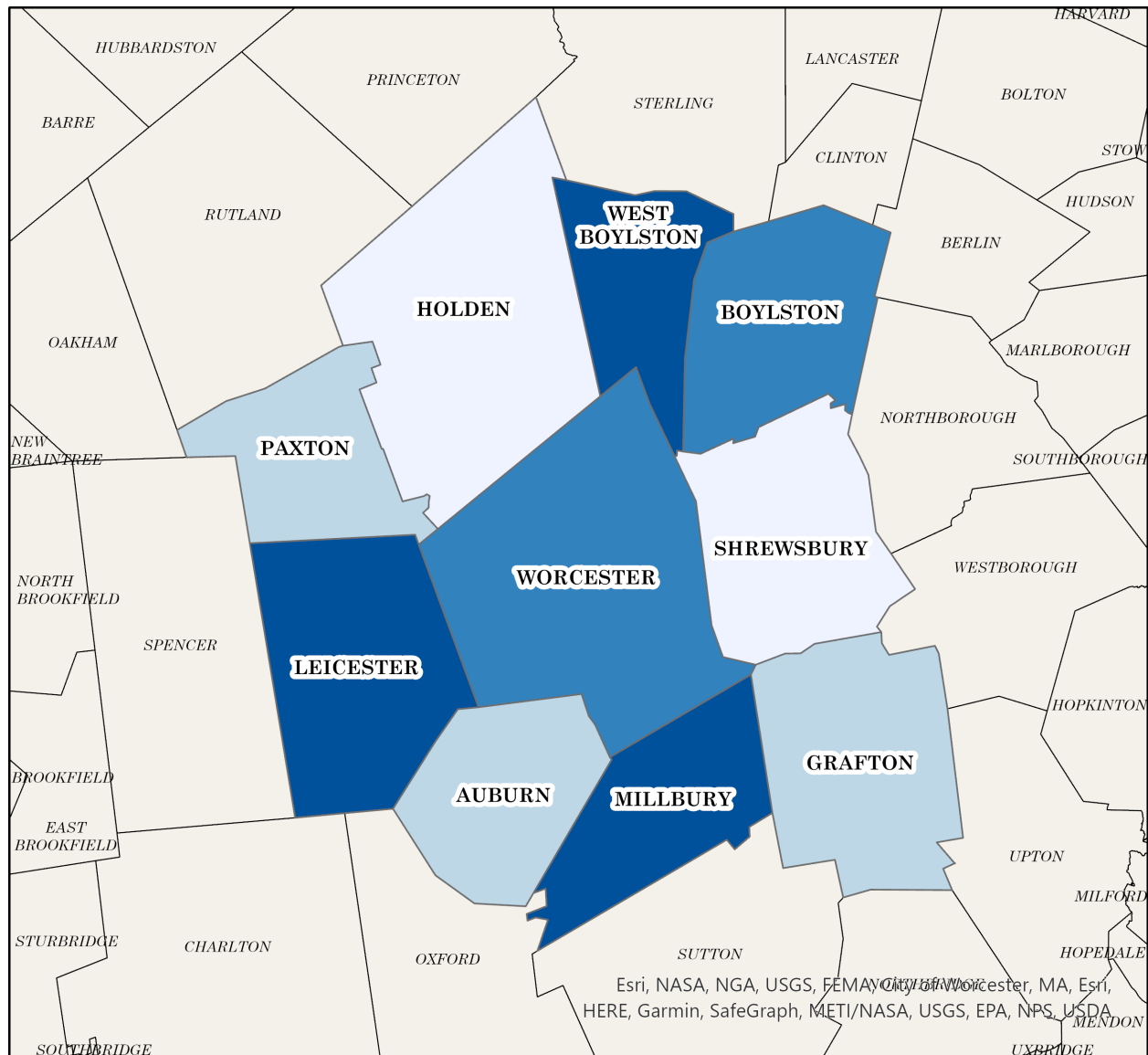


Appendix II

A Focus on Greater Worcester

Greater Worcester Executive/Administrative Leadership

Auburn — Julie A. Jacobson — Town Manager
 Boylston — April Steward — Town Administrator
 Grafton — Evan Brassard — Town Administrator
 Holden — Peter M. Lukes — Town Manager
 Leicester — David A. Genereux — Town Administrator
 Millbury — Sean Hendricks — Town Manager
 Paxton — Heather Munroe — Town Administrator
 Shrewsbury — Kevin J. Mizikar — Town Manager
 West Boylston — Nancy Lucier — Town Administrator

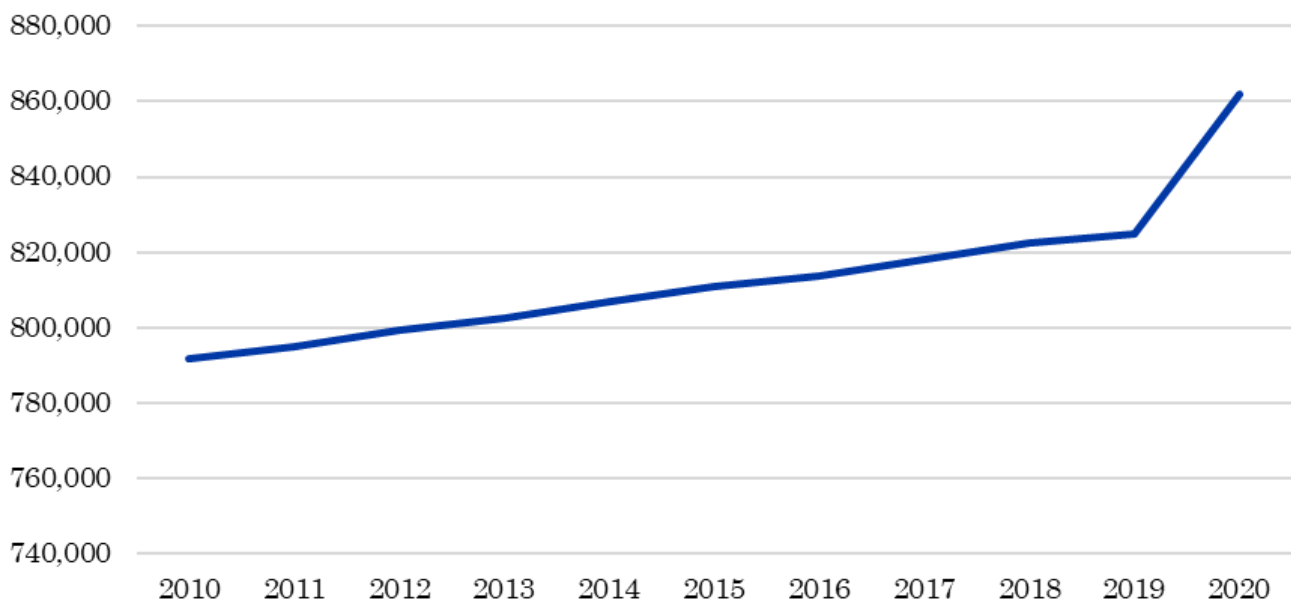


Incorporation Dates for Greater Worcester		
Leicester	1714	
Worcester	1722 as a Town	1848 as a City
Shrewsbury	1727	
Grafton	1735	
Holden	1741	
Paxton	1765	
Auburn	1778	
Boylston	1786	
West Boylston	1808	
Millbury	1813	

Worcester County:

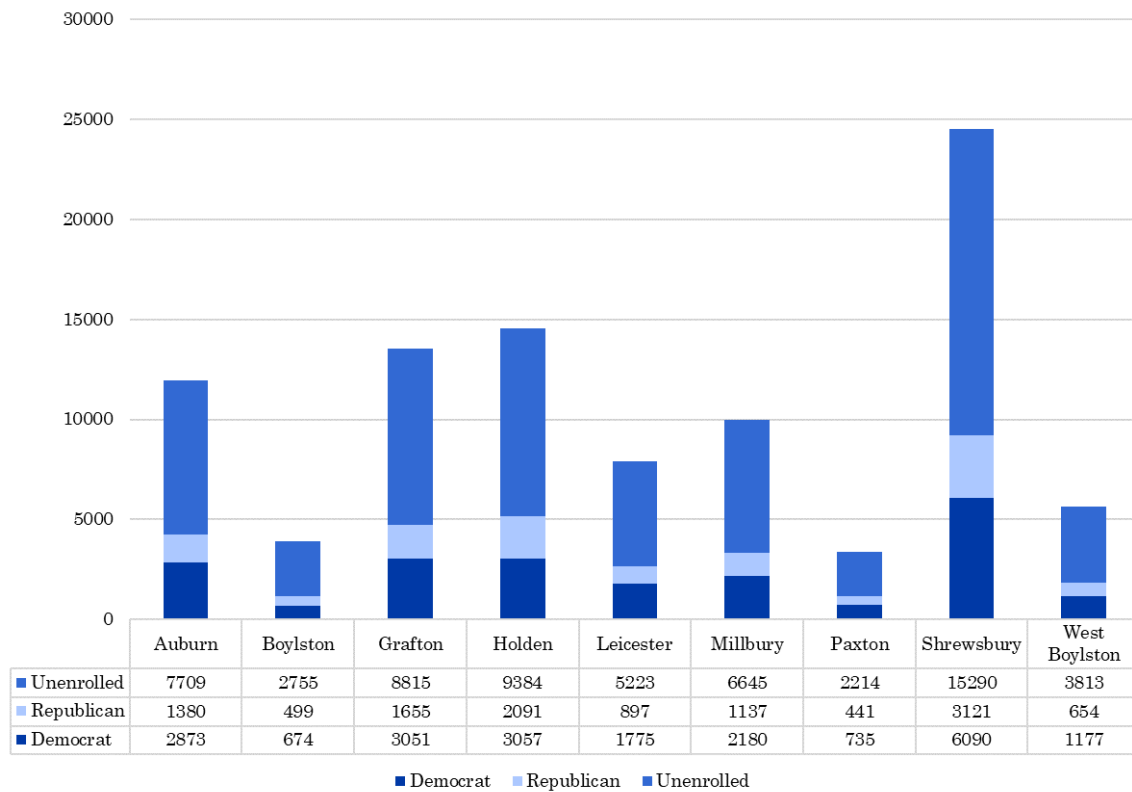
Area: 1,510 square miles

Population: 862,111 (2020)

Population Density: 571 persons per square mile
60 cities and towns (including Worcester)**Worcester County: Population 2010 — 2020**

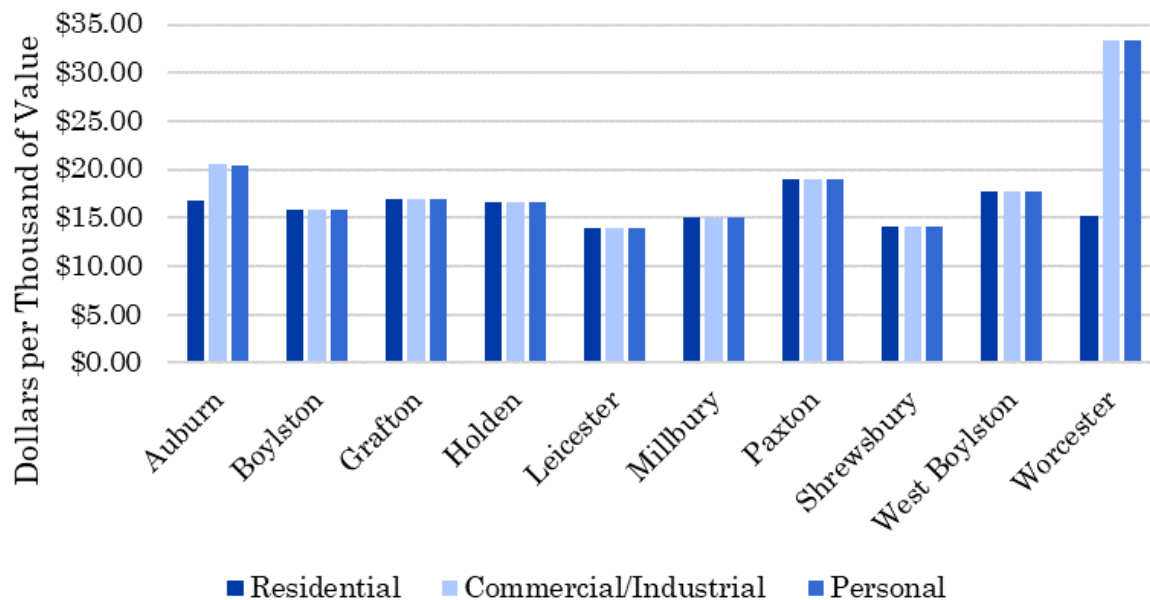
Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Greater Worcester: Party Affiliation & Registration, as of February 2021



Source: Office of the Secretary of the Commonwealth of Massachusetts.

Greater Worcester: Property Tax Rates, FY22



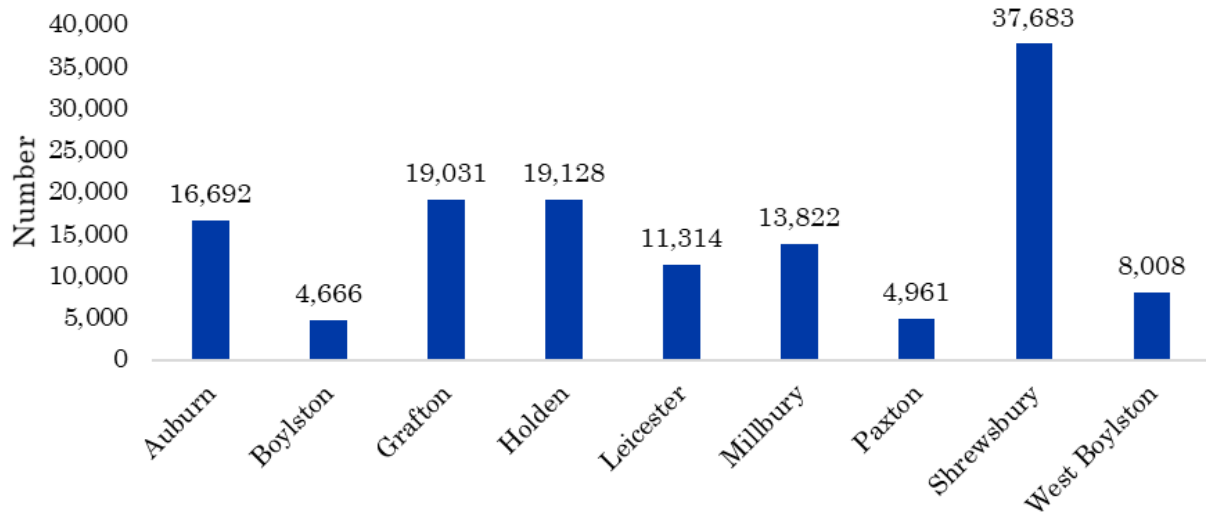
Source: Massachusetts Department of Revenue.

Greater Worcester: FY22 Budgets

	Total City Budget (including schools)	Education Budget	Education % of Total Budget	Police Budget	Fire Budget	Police & Fire % of Total Budget
Auburn	\$74,206,770	\$27,988,540	37.72%	\$5,015,022	\$3,569,212	11.57%
Boylston	\$18,203,089	\$10,983,267	60.34%	\$1,394,176	\$526,541	10.55%
Grafton	\$68,287,943	\$39,707,473	58.15%	\$2,434,184	\$831,343	4.78%
Holden	\$56,818,081	\$33,578,790	59.10%	\$2,579,054	\$2,450,070	8.85%
Leicester	\$32,923,212	\$17,582,550	53.40%	\$2,271,573	\$332,934	7.91%
Millbury	\$48,836,291	\$24,763,244	50.71%	\$2,832,055	\$798,909	7.43%
Paxton	\$16,689,951	\$7,477,949	44.81%	\$1,117,052	\$414,593	9.18%
Shrewsbury	\$129,573,964	\$70,535,606	54.44%	\$6,356,435	\$4,290,031	8.22%
West Boylston	\$26,838,551	\$12,897,774	48.06%	\$1,643,117	\$968,269	9.73%
Worcester	\$733,767,766	\$420,816,942	57.35%	\$52,767,291	\$41,820,212	12.89%

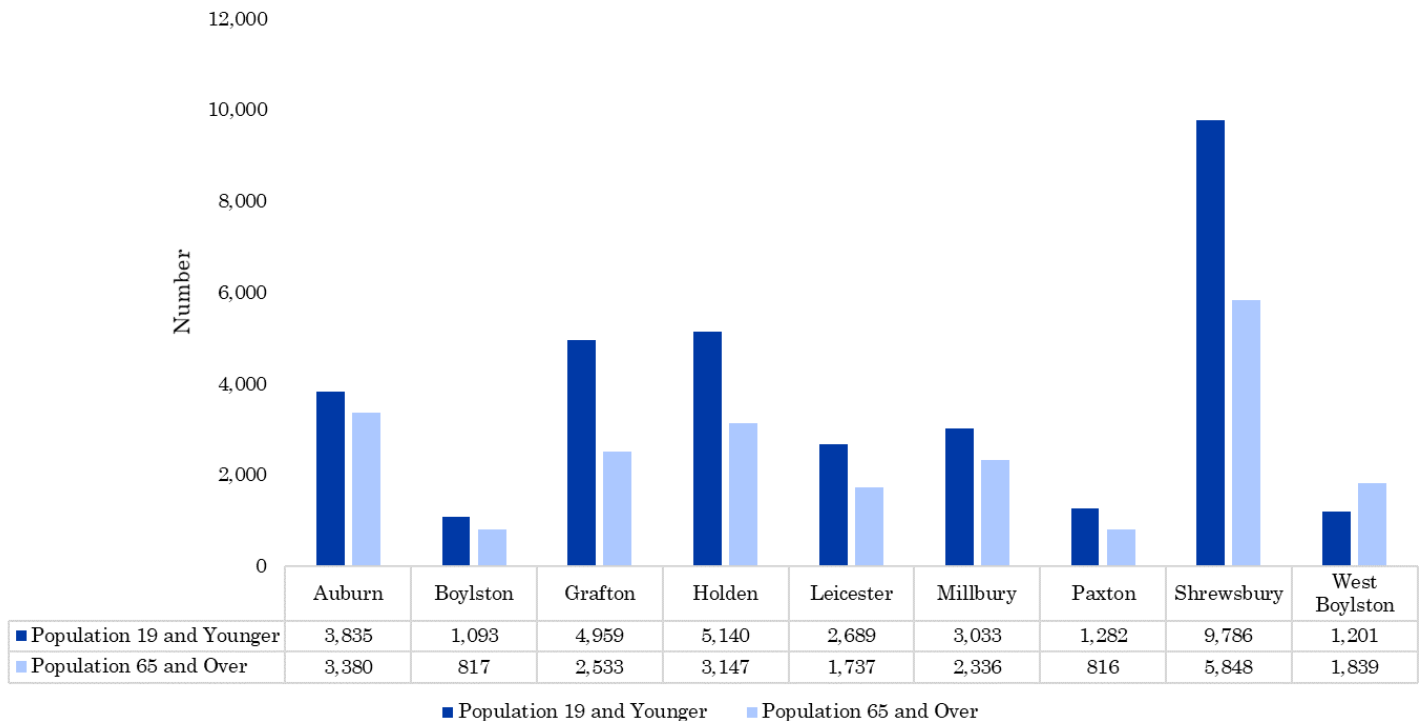
Sources: Individual Town Budgets.

Greater Worcester: Population, 2020

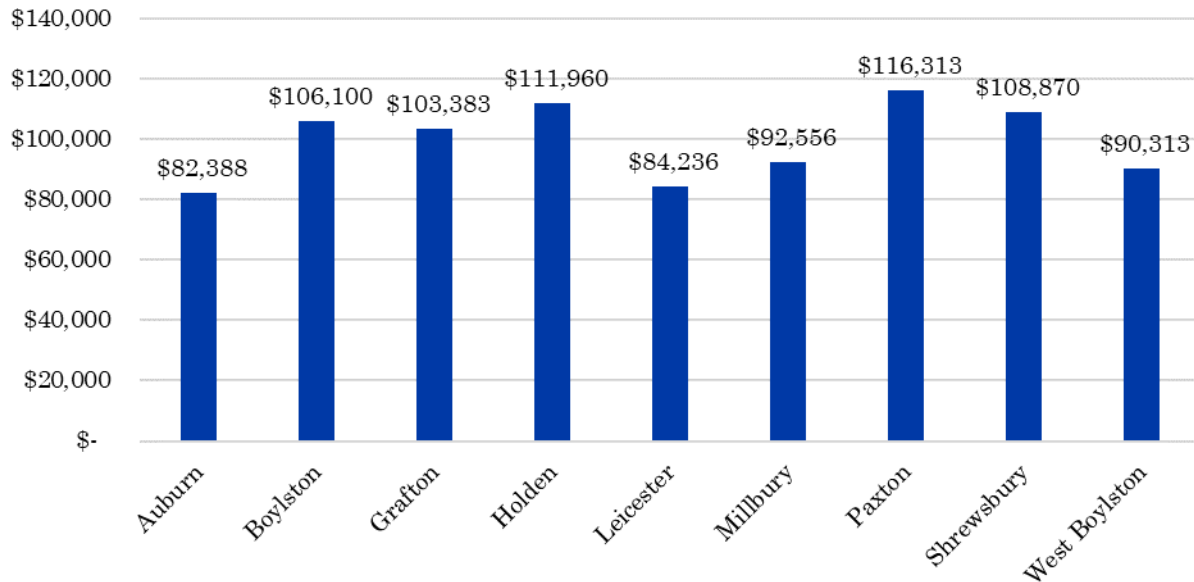


Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

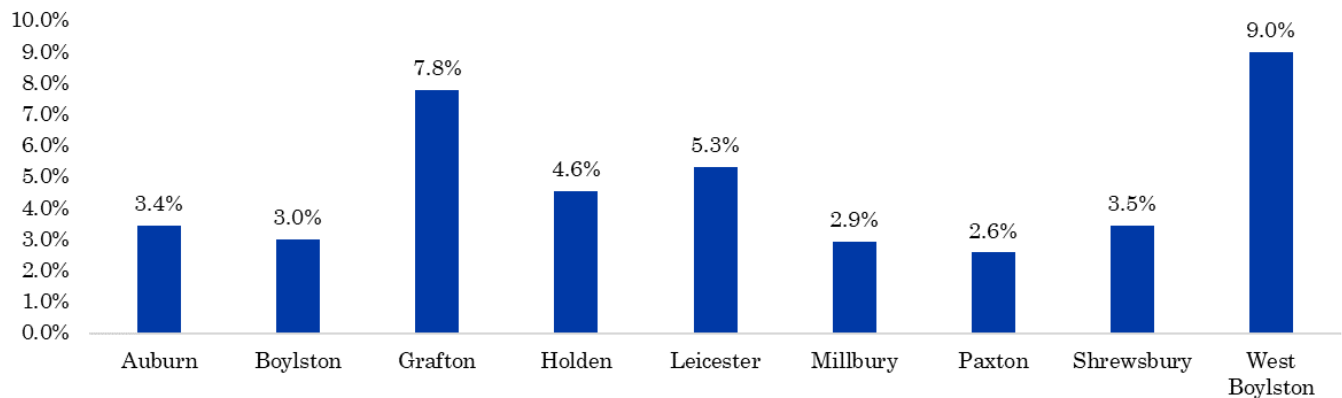
Greater Worcester: Population 19 Years of Age or Under and Population 65 Years of Age or Over, 2020



Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Greater Worcester: Median Household Income, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

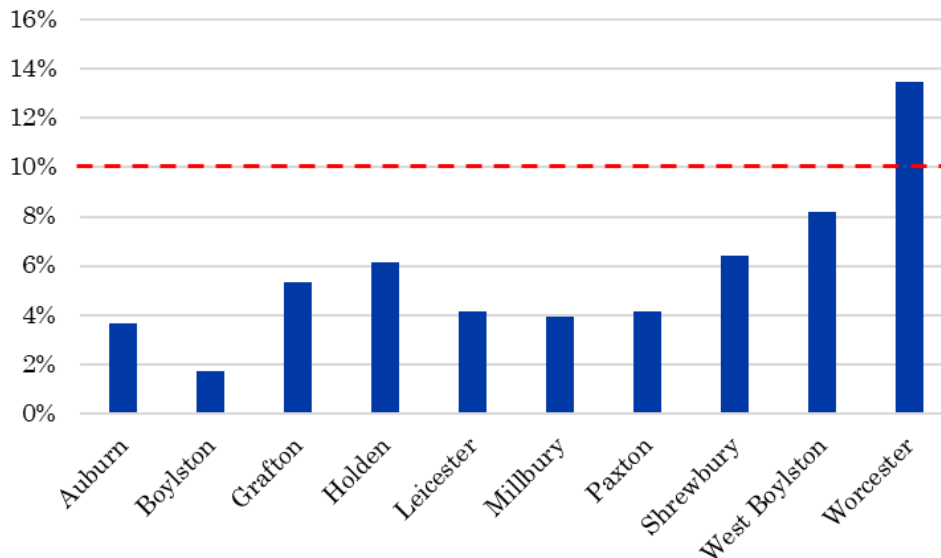
Greater Worcester: Percent in Poverty, 2020

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Worcester County: Hotel Market, 2021	
Occupancy	59.40%
Supply	6,225
Average Daily Rate (ADR)	\$111.17
Revenue per Available Room	\$66.06
Revenue per Available Room	\$79.24

Source: Discover Central Massachusetts.

Greater Worcester: Chapter 40B Subsidized Housing Inventory

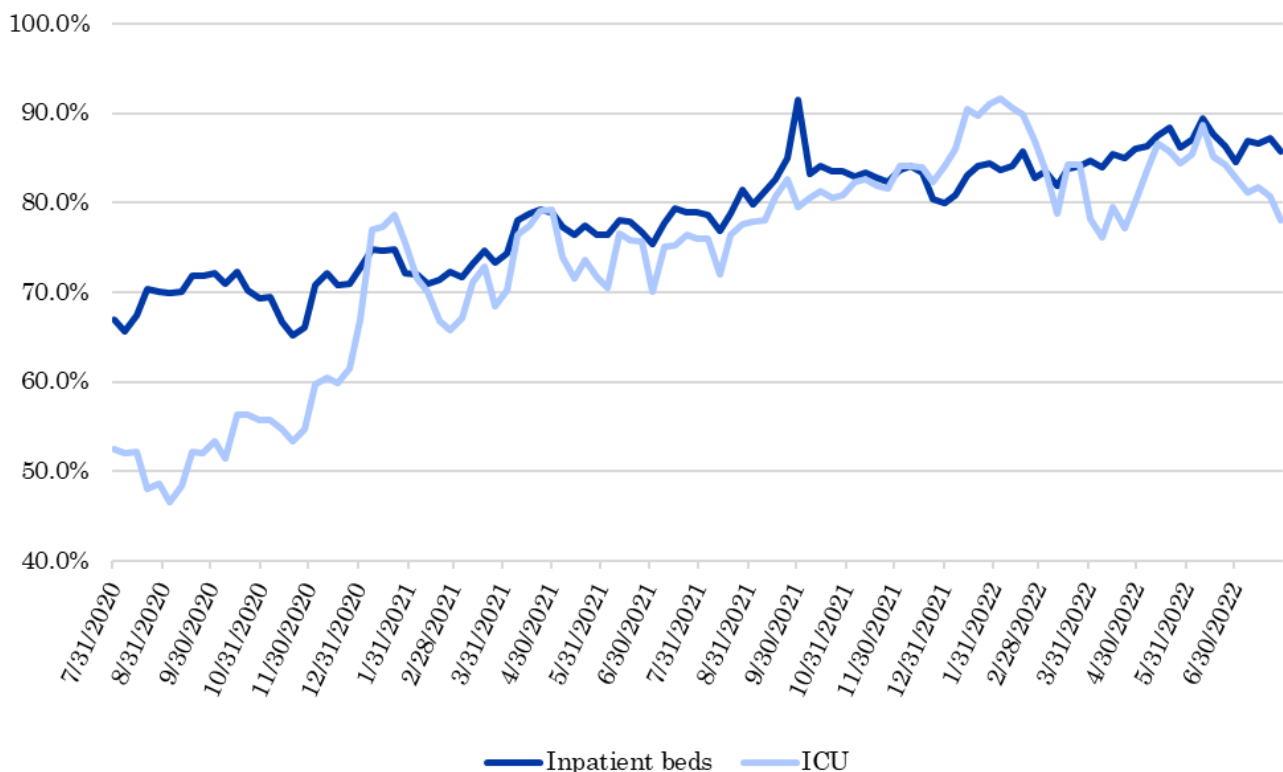


Massachusetts General Laws Chapter 40B was adopted in 1969 as part of the Massachusetts Comprehensive Permit Act to encourage and facilitate the building of affordable, long-term housing for low-income individuals and families across the Commonwealth and to ensure that low-income residents can remain in their localities if housing costs increase. The law calls on every Massachusetts community to ensure that 10% of all housing units meet certain affordability requirements.

Red line indicates 10% threshold called for under Chapter 40B.

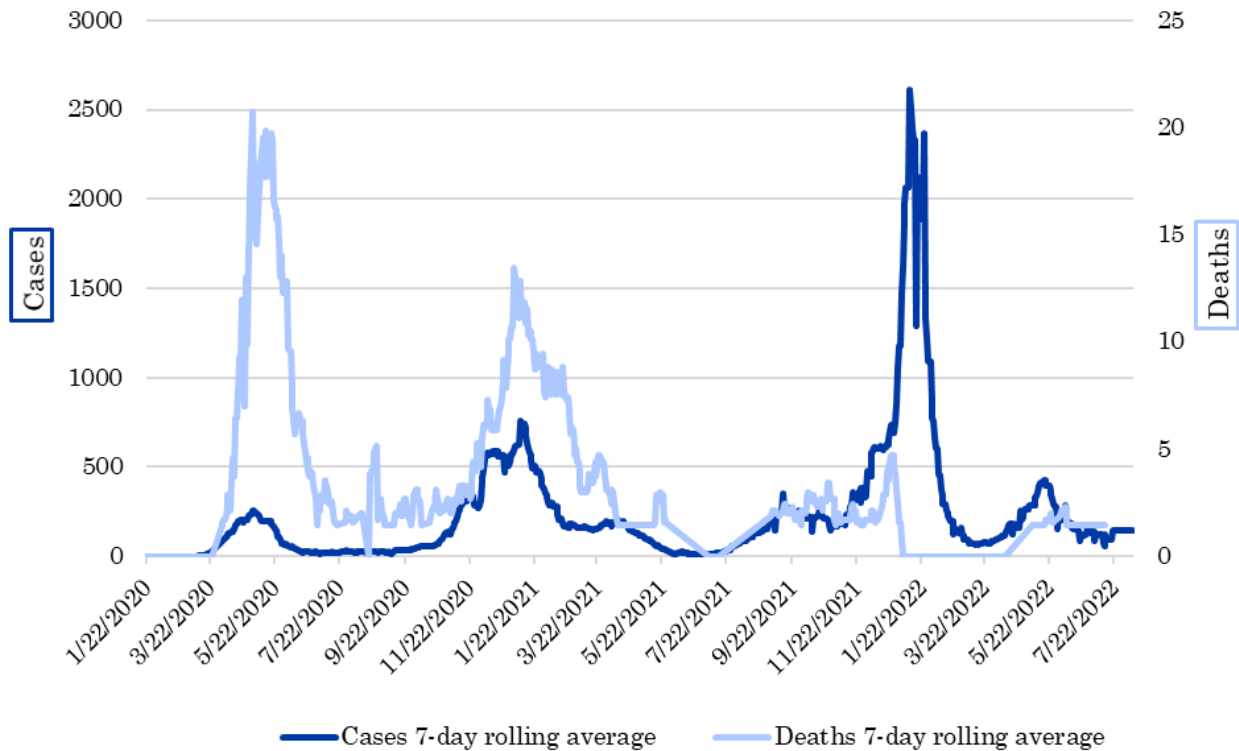
Source: Massachusetts Department of Housing & Community Development.

Worcester County: Percent of Inpatient and ICU Beds Used, 2020-2022



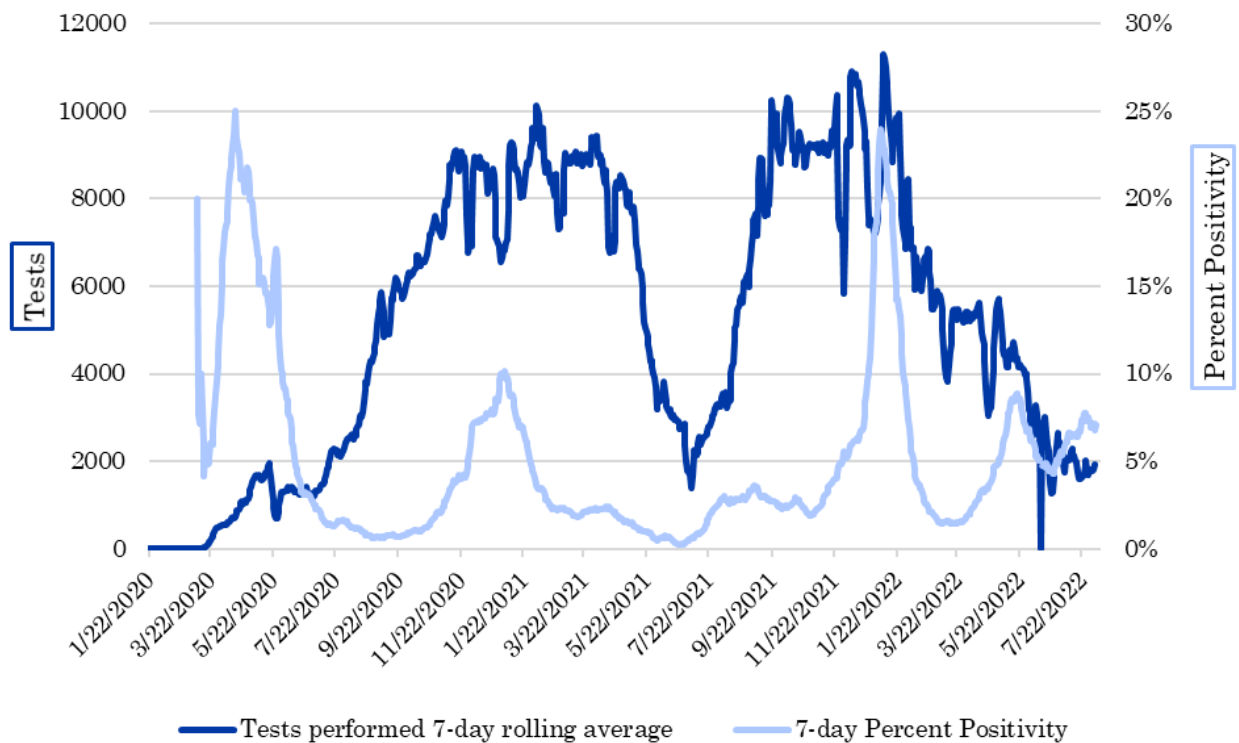
Source: Center for Disease Control

Worcester County: COVID-19 Cases and Deaths



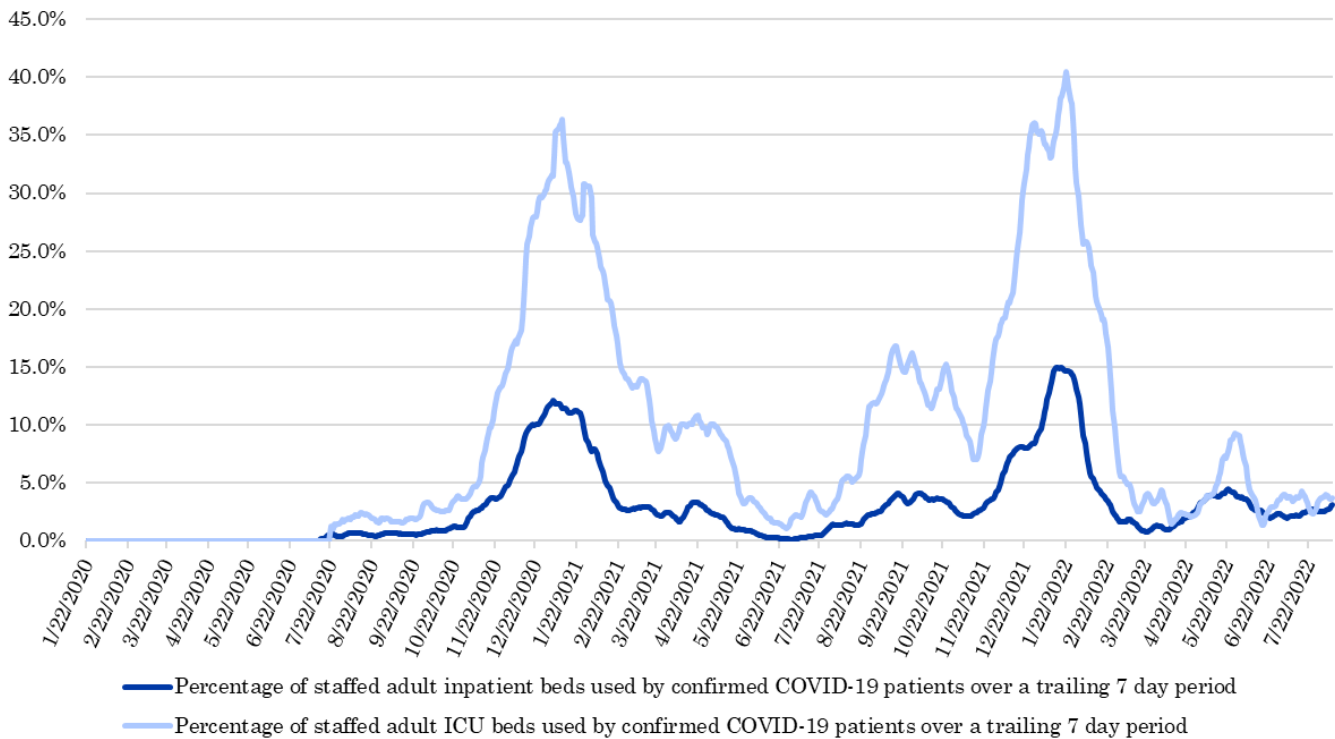
Source: Center for Disease Control

Worcester County: COVID-19 Tests and Positivity



Source: Center for Disease Control

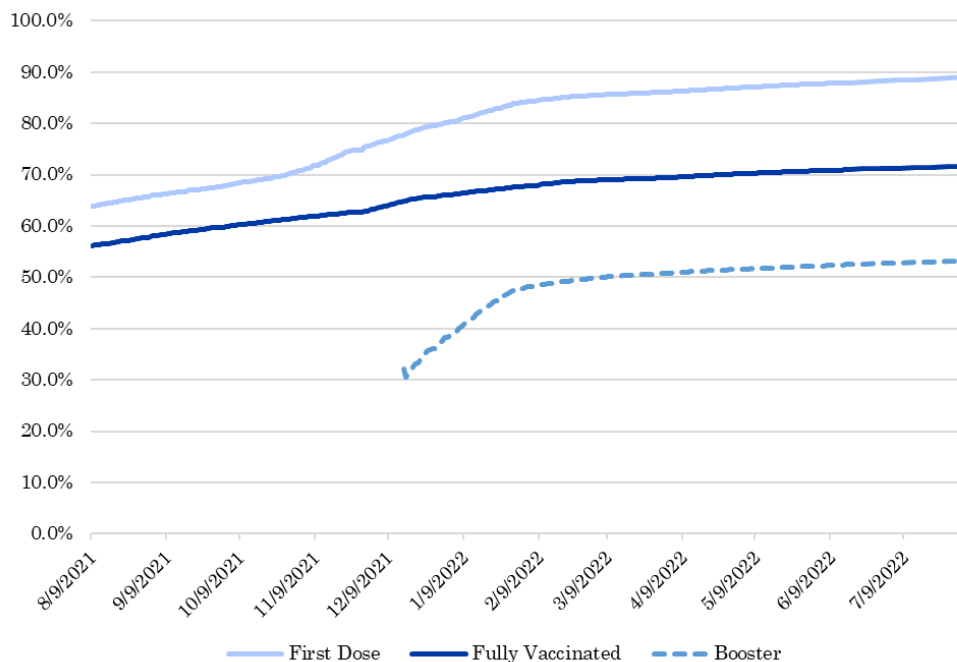
Worcester County: Inpatient and ICU Beds Used by Confirmed COVID-19 Patients, 2020-2022



Source: Center for Disease Control

Note: The remaining beds may be occupied by patients with other health concerns or are unoccupied.

Worcester County: Percent Vaccinated for COVID-19, 2020-2022



Source: Center for Disease Control

**Greater Worcester: Number of Confirmed Opioid Related Overdose Deaths, 2015-2021
(by town of residence for deceased)**

	2015	2016	2017	2018	2019	2020	2021
Auburn	4	2	4	6	4	3	4
Boylston	2	0	1	1	1	1	1
Grafton	2	1	0	3	6	2	2
Holden	4	5	1	3	1	2	3
Leicester	2	2	4	6	4	5	3
Millbury	4	4	7	7	8	6	2
Paxton	1	0	0	1	1	2	1
Shrewsbury	2	7	8	7	6	4	3
West Boylston	0	1	3	4	2	1	1
Worcester	84	77	86	99	81	103	105

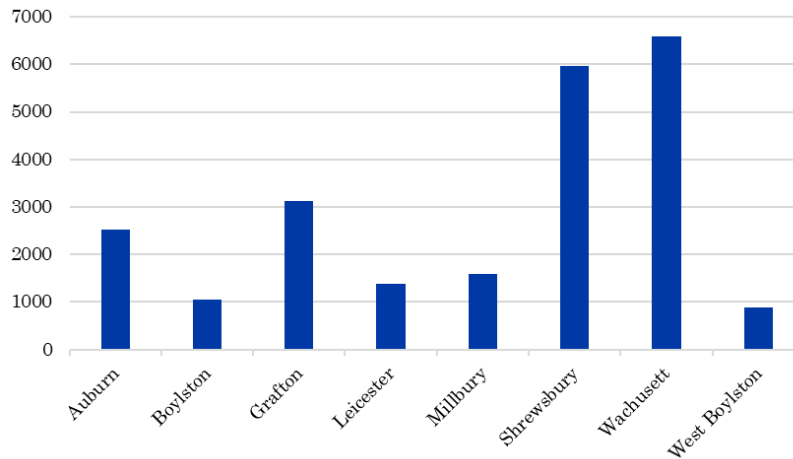
Source: Massachusetts Department of Public Health.

**Greater Worcester: Number of Confirmed Opioid Related Overdose Deaths, 2015-2021
(by location of incident)**

	2015	2016	2017	2018	2019	2020	2021
Auburn	1	0	1	1	0	1	3
Boylston	1	0	0	0	0	0	1
Grafton	2	0	0	2	3	0	1
Holden	1	2	0	1	2	1	1
Leicester	1	1	2	2	1	2	2
Millbury	1	3	2	3	4	3	2
Paxton	0	0	0	0	1	2	0
Shrewsbury	1	3	7	5	2	5	7
West Boylston	0	2	2	1	1	0	1
Worcester	122	112	123	135	144	132	123

Source: Massachusetts Department of Public Health.

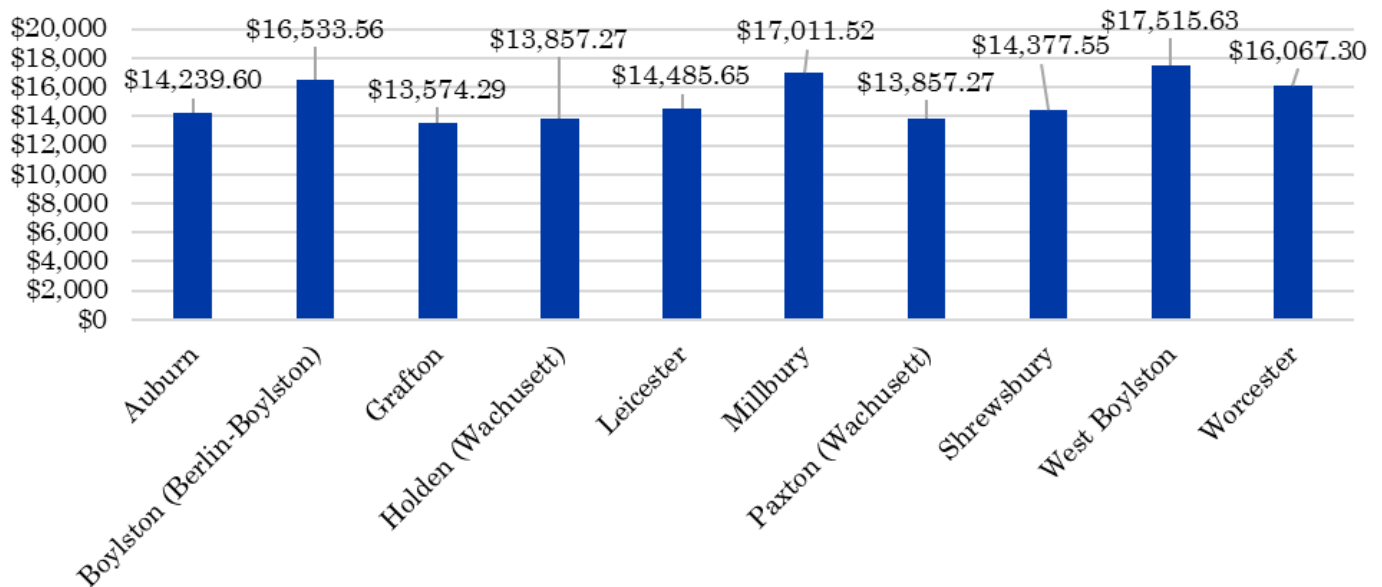
Greater Worcester: Number of Students, 2021



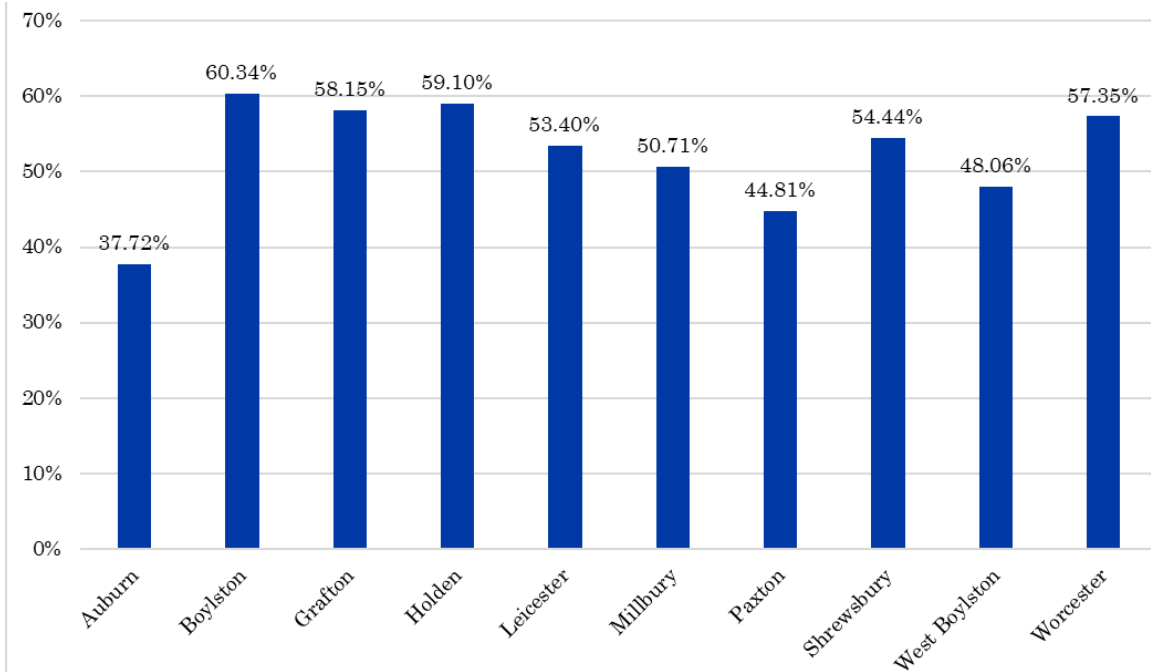
Source: Massachusetts Department of Elementary & Secondary Education.

The towns of Holden and Paxton are part of the Wachusett Regional School District, the largest regional district in the Commonwealth.

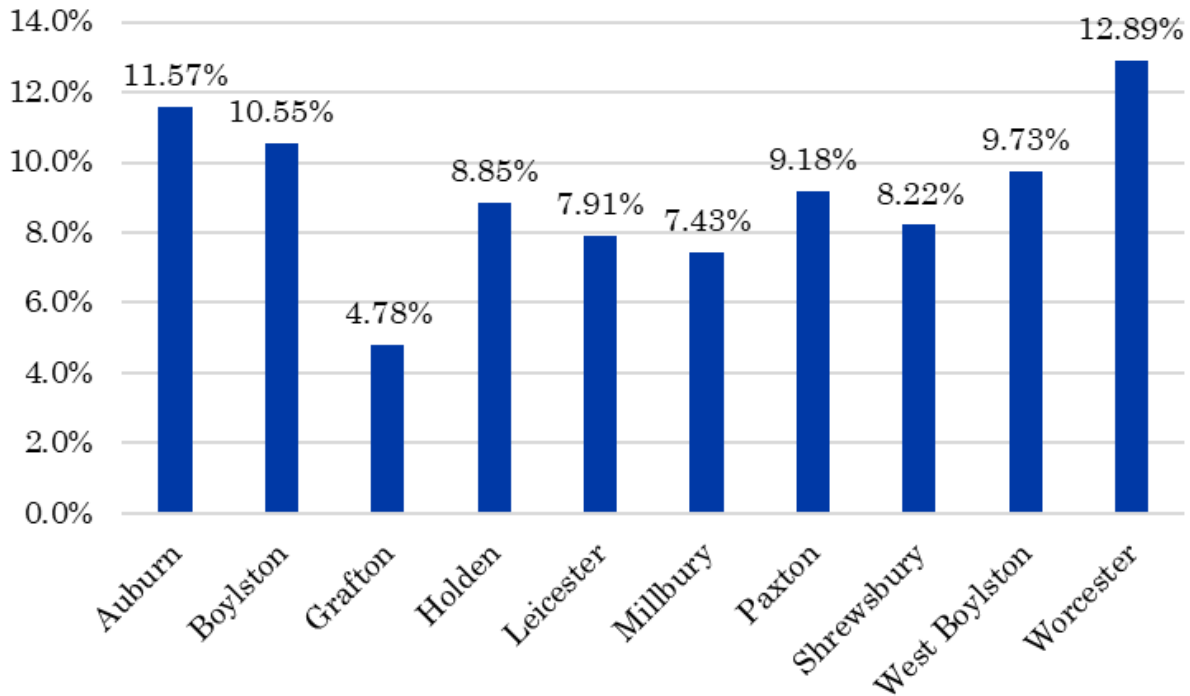
Greater Worcester: Per Pupil Spending, 2020



Source: Massachusetts Department of Elementary & Secondary Education.

Greater Worcester: Education as Percent of FY22 Municipal Budget

Sources: Individual Town Budgets.

Greater Worcester: Police/Fire as Percent of FY22 Municipal Budget

Sources: Individual Town Budgets.

Greater Worcester: Percent Population 25 and Over with Bachelor's Degree or Higher, 2020

Auburn	41.4%
Boylston	56.3%
Grafton	51.8%
Holden	57.1%
Leicester	27.3%
Millbury	32.0%
Paxton	55.0%
Shrewsbury	62.5%
West Boylston	35.4%
Worcester	31.2%

Source: U.S. Census Bureau, 2020 5-Year American Community Survey Estimates.

Greater Worcester: Colleges & Universities, 2021

Anna Maria College (Paxton)
Assumption University (Worcester)
Clark University (Worcester)
College of the Holy Cross (Worcester)
MCPHS University (Worcester & Boston)
Nichols College (Dudley)
Quinsigamond Community College (Worcester)
Tufts Cummings School of Veterinary Medicine (Grafton)
University of Massachusetts Medical School (Worcester)
Worcester Polytechnic Institute (Worcester)
Worcester State University (Worcester)

Source: Worcester Regional Research Bureau, Inc.

Worcester Regional Research Bureau, Inc.

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serves the public interest of Greater Worcester by conducting independent, non-partisan research and analysis of public policy issues to promote informed public debate and decision-making.



The Research Bureau

Worcester Regional Research Bureau, Inc.
390 Main Street, Suite 208
Worcester, MA 01608
508.799.7169 / www.wrrb.org

