



The Research Bureau

Worcester
ALMANAC

2019



A Note from The Research Bureau

The Worcester Regional Research Bureau is pleased to present the fifth annual *Worcester Almanac*—our compendium of information of all things Greater Worcester. A small, not-for-profit organization, The Research Bureau’s mission is to serve the public interest of Greater Worcester by conducting independent 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:

Worcester Regional Research Bureau, Inc.
500 Salisbury Street
Worcester, MA 01609



Image Courtesy of PENTA Communications.



Thank You To Our Sponsors

The Worcester Regional Research Bureau offers its thanks to the generous sponsors of its work, including the *Worcester Almanac*. We highlight the contributions of MassDevelopment, which has supported this report since its inception in 2015. Now in its 5th 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.



AdCare Hospital of Worcester
 Anna Maria College
 Atlas Distributing, Inc.
 Bay State Savings Bank
 Becker College
 Bowditch & Dewey Attorneys
 BSC Group
 Coghlin Companies (Columbia Tech & Cogmedix)
 Coghlin Electrical Contractors
 Consigli Construction Co., Inc.
 DCU Center
 Dresser & McGourthy, LLP
 Eversource
 F.W. Madigan Company, Inc.
 Fidelity Bank
 First American Realty, Inc.
 Fletcher Tilton, PC Attorneys at law
 FLEXcon
 Grasseschi Plumbing
 Grimes & Company, Inc.
 Harvard Pilgrim Health Care
 Homefield Credit Union

Interstate Specialty Products
 Kelleher & Sadowsky Associates, Inc.
 Kinefac Corporation
 Lamoureux Pagano Associates
 Laurant Construction, Inc.
 Leggat McCall Properties
 Lutco, Inc.
 Maywood Consulting
 MCPHS University
 Millbury Savings Bank
 Mirick O'Connell Attorneys at Law
 National Grid
 North Pointe Wealth Management
 O'Connell Development Group, Inc.
 Pagano Media
 People's United Bank
 Primetals Technologies
 Quaker Special Risk
 Quinsigamond Community College
 Reliant Medical Group
 Risk Strategies Company
 Saint-Gobain
 Santander N.A.

Seder & Chandler, LLP
 Spectrum Health Systems, Inc.
 Spillane & Spillane, LLP
 Sullivan Insurance Group, Inc.
 TD Bank
 ten24
 The Health Foundation of Central Massachusetts
 U.S. Trust, Bank of America
 UMass Medical School
 UniBank
 United Bank
 Unum
 Verizon
 Webster Five
 Worcester Academy
 Worcester Business Development Corporation
 Worcester Business Journal
 Worcester Credit Union
 Worcester Telegram & Gazette
 WorkCentral

Foundations

George I. Alden Trust
 Fred Harris Daniels Foundation
 Ruth H. & Warren A. Ellsworth Foundation
 The Fletcher Foundation
 George F. & Sybil H. Fuller Foundation

Greater Worcester Community Foundation
 Hoche-Scofield Foundation
 Mildred H. McEvoy Foundation
 The Stoddard Charitable Trust
 Wyman-Gordon Foundation





MassDevelopment.com

Hello and welcome to Worcester! As President and CEO of MassDevelopment, the state's finance and development authority, I've seen firsthand the progress taking place here in the Heart of the Commonwealth. Soon-to-be home of the Worcester Red Sox, the city is witnessing actively developing neighborhoods, critical infrastructure improvements, and a renewed momentum for growth that is unparalleled in recent memory. On the following pages, you'll read for yourself about the individuals, institutions, organizations, and companies playing a role in elevating this city to new heights.

At MassDevelopment, we stimulate economic growth in the Commonwealth using a variety of tools, including direct loans, tax-exempt bonds, grants, and real estate services for businesses, nonprofits, municipalities, and more. Guided by a five-person regional team working on the ground in Worcester, we've been fortunate to be part of several key development projects in and around the city. For example, in the Canal District, where Polar Park will soon be built, a \$2 million loan from the Brownfields Redevelopment Fund helped the Worcester Business Development Corporation remediate a contaminated industrial site and transform it into the state-of-the-art **Fidelity Bank Worcester Ice Center** – a recreational destination for people of all ages to enjoy.

Just down the street at Kelley Square, a \$20 million mixed-use development is rising from the ground where a vacant parking lot once stood. With the help of a \$1.8 million loan and \$1.6 million guarantee from MassDevelopment, and support from our finance partner Country Bank for Savings, **Harding Green** will offer 48 new market-rate housing units and a street-level farmer's market and restaurant.

Across the train tracks, **Worcester's Theatre District** continues to evolve into a bustling hub of cultural activity and entertainment. Through the Transformative Development Initiative (TDI) – a program designed to accelerate economic growth within focused districts in Gateway Cities – we were able to help key stakeholders realize their vision of a lively and active mixed-use neighborhood. The recent creation of a Business Improvement District will ensure that these partners can sustain the momentum of a welcoming and vibrant downtown. Further down Main Street, a new TDI District has formed with the goal of connecting businesses, spurring development, and activating the Main South neighborhood.

If you'd like to learn more about MassDevelopment and our work in this important city and region, please reach out to us. Our team is here to help every community in the Commonwealth revitalize, develop, and transform.

Lauren A. Liss
President & CEO, MassDevelopment



Fidelity Bank Worcester Ice Center



Harding Green



Worcester's Theatre District

TABLE OF CONTENTS

Government.....	6
Demographics & Economy.....	26
Health.....	47
Education.....	51
Public Safety.....	66
Transportation & Infrastructure.....	70
Arts, Culture, & Sports.....	74
Weather, Geography, & Environment.....	78
Appendix: A Focus on Children.....	87



Government

City of Worcester Government

The City of Worcester, as established by the City Charter, is known as a modified Plan E form of government, which is a Council-Manager form of government with a popularly elected Mayor. The Worcester Public Schools 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 composed of 11 members—six elected citywide (or at-large) and five elected from districts. The Mayor is a member of the City Council who receives the most votes in the mayoral election and wins an at-large City Council seat. 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, and also hires the City Clerk and City Auditor. The City Manager hires all City employees (except the City Clerk, City Auditor, and employees of the Worcester Public Schools), oversees City operations, and presents the City Council with an annual budget that must be approved by June 30th of each year. The City Council has the authority to reduce the City Manager's proposed budget, but not increase it. The approved budget must be balanced.

The Worcester School Committee is the Worcester Public Schools' legislative body while the Superintendent of Schools serves as chief executive officer. The School Committee consists of the Mayor and six elected citywide members. The School Committee sets districtwide school policies, votes on the district budget, and hires and removes the Superintendent.

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



City of Worcester Seal

City of Worcester Population: 184,743

132st Largest City in the United States

2nd Largest City in New England

Area: 37.37 square miles (96.79 square kilometers)

Population Density: 4,944 persons per square mile

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Mayor

Joseph M. Petty

City Council

Sean M. Rose, District 1
 Candy F. Mero-Carlson, District 2
 George J. Russell, District 3
 Sarai Rivera, District 4
 Matthew E. Wally, District 5
 Morris A. Bergman, At-Large
 Khrystian E. King, At-Large
 Konstantina B. Lukes, At-Large
 Gary Rosen, At-Large
 Kathleen M. Toomey, At-Large

City Manager

Edward M. Augustus, Jr.

City Clerk

Susan M. Ledoux

City Auditor

Robert V. Stearns

City Manager's Cabinet

Kathleen G. Johnson, Assistant City Manager for Operations
 Matilde Castiel, M.D., Commissioner of Health and Human Services
 Eileen Cazaropoul, Chief Information Officer
 Suja Chacko, Chief Diversity Officer
 John R. Kelly, Inspectional Services Commissioner
 Michael J. Lavoie, Fire Chief
 David M. Moore, City Solicitor
 Paul J. Moosey, P.E., Public Works & Parks Commissioner
 Steven M. Sargent, Police Chief
 Michael E. Shanley, Emergency Communications & Emergency Management Acting Director
 Michael E. Traynor, Chief Development Officer
 Thomas F. Zidelis, Chief Financial Officer

School Committee

Dianna L. Biancheria
 Dante A. Comparetto
 John L. Foley
 Molly O. McCullough
 John F. Monfredo
 Brian A. O'Connell

Superintendent of Schools

Maureen F. Binienda

United States Senators

Elizabeth Warren
Edward J. Markey

United States Representative

James P. McGovern

Governor

Charles D. Baker, Jr.

Lieutenant Governor

Karyn Polito

Governor's Council

Jennie L. Caissie

State Senators

Harriette L. Chandler—1st Worcester
Michael O. Moore—2nd Worcester

State Representatives

John J. Mahoney—13th Worcester
James J. O'Day—14th Worcester
Mary S. Keefe—15th Worcester
Daniel M. Donahue—16th Worcester
David A. LeBoeuf—17th Worcester

District Attorney

Joseph D. Early, Jr.

Clerk of Courts

Dennis P. McManus

Register of Deeds

Kathryn A. Toomey

Register of Probate

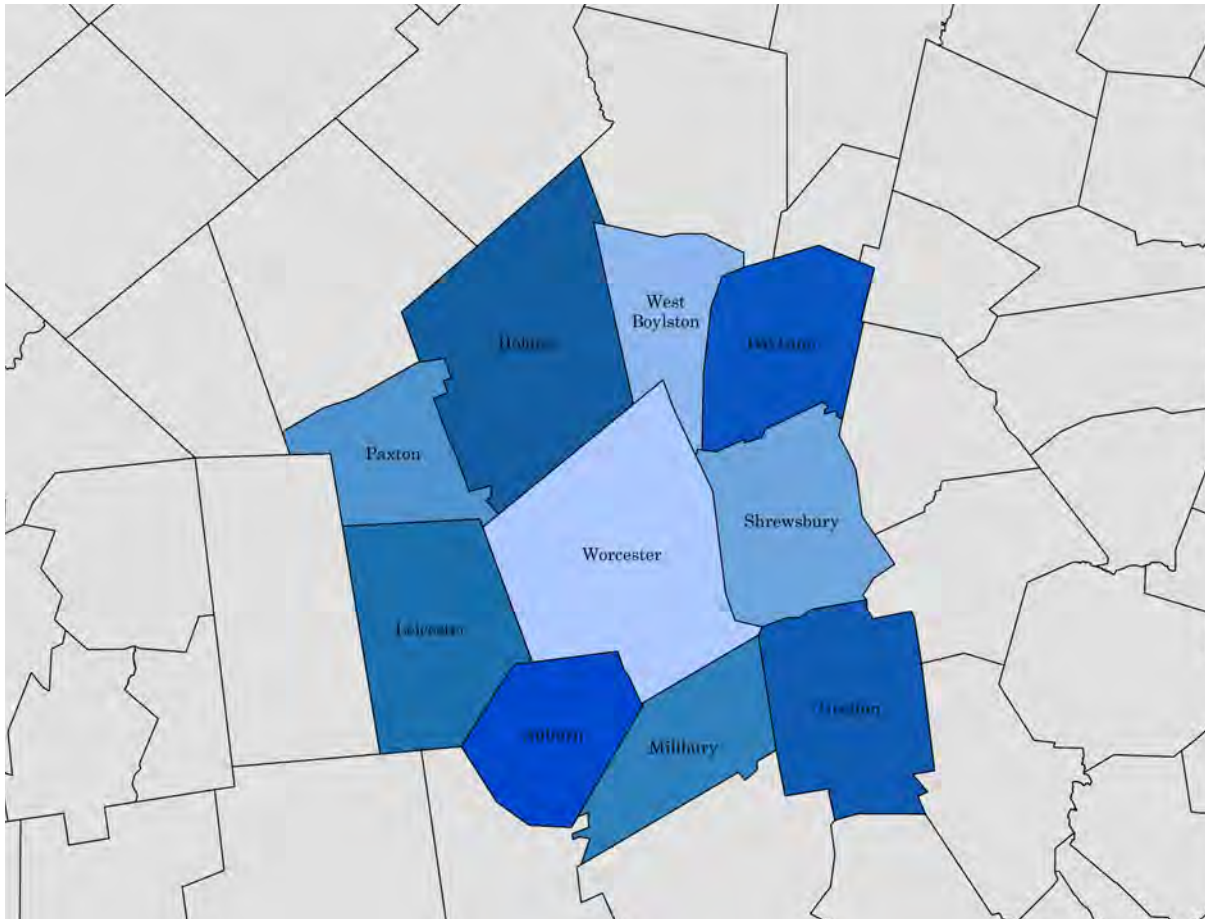
Stephanie K. Fattman

County Sheriff

Lewis G. Evangelidis

Greater Worcester Executive/Administrative Leadership

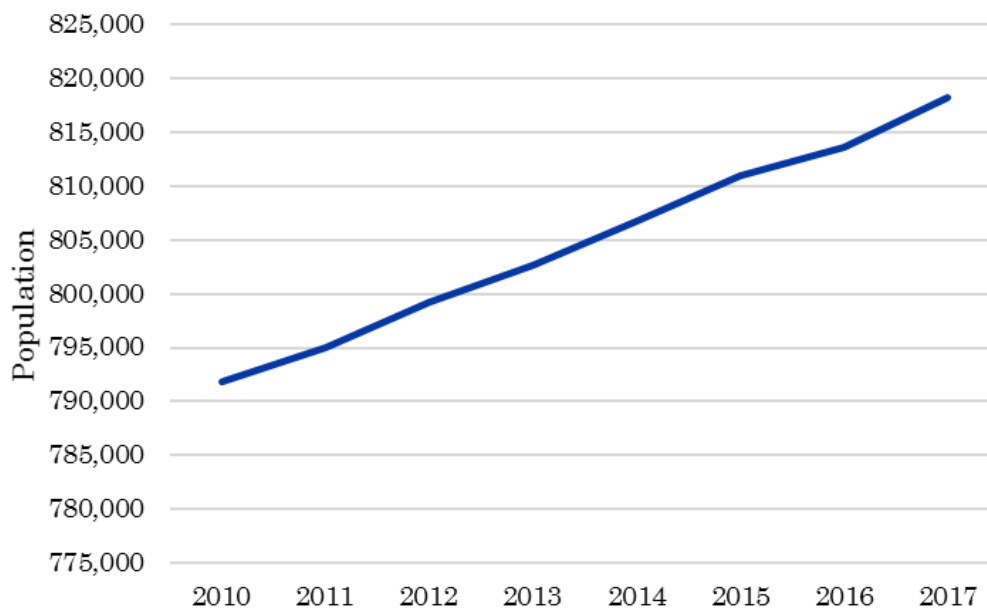
- Auburn—Julie A. Jacobson—Town Manager
- Boylston—April Steward—Town Administrator
- Grafton—Timothy P. McInerney—Town Administrator
- Holden—Peter M. Lukes—Town Manager
- Leicester—David A. Genereux—Town Administrator
- Millbury—David J. Marciello—Town Manager
- Paxton—Carol L. Riches—Town Administrator
- Shrewsbury—Kevin J. Mizikar—Town Manager
- West Boylston—Nancy Lucier—Interim 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

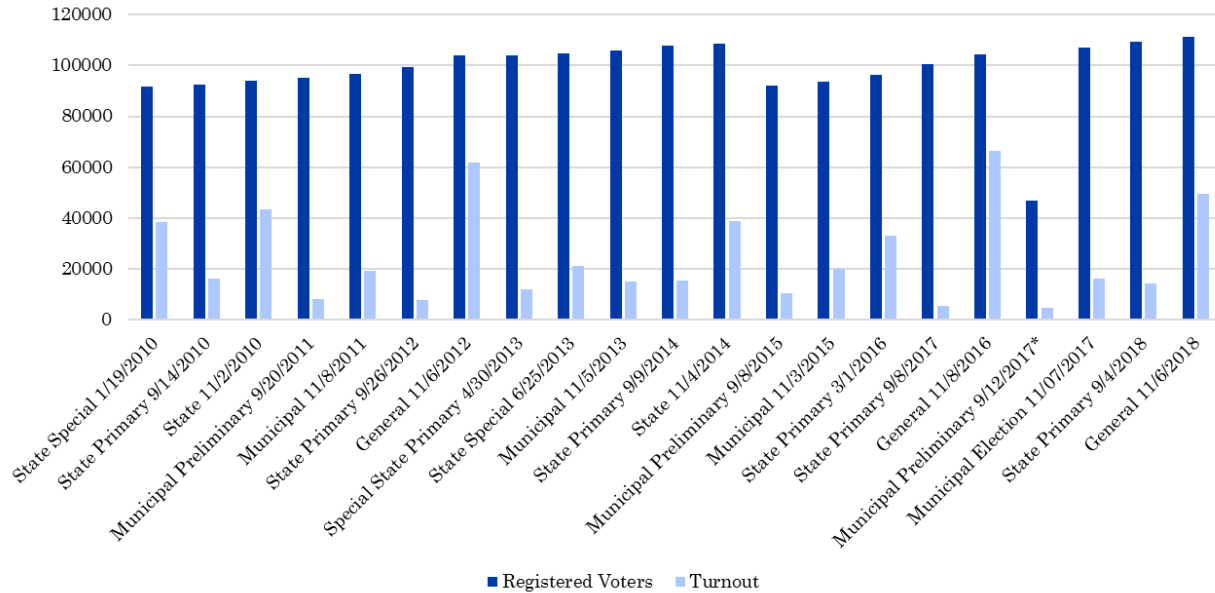
Worcester County:
 Area: 1,579 square miles (4,090 square kilometers)
 Population: 818,249 (2017)
 Population Density: 518 persons per square mile
 60 cities and towns (including Worcester)

Worcester County: Population 2010—2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Registered Voters & Ballots Cast, 2010-2018



*Number of registered voters in Districts 1 and 5 where preliminary race held.
 Source: City of Worcester Elections Division.

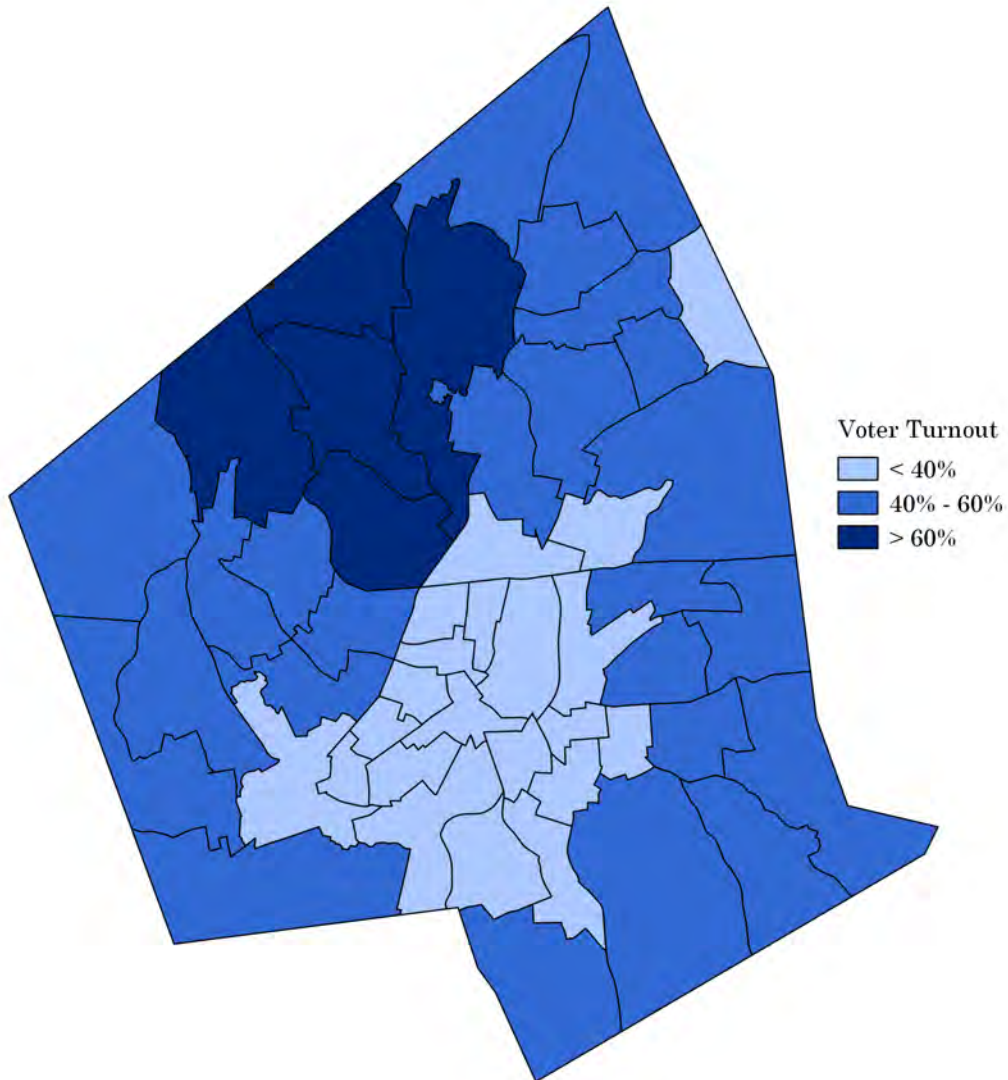
Voter turnout in the City of Worcester varies depending on the type of election. Municipal elections, which are held in odd-numbered years, experience the lowest turnout. Only 15% of registered voters turned out in November 2017 to vote for the Mayor, City Council, and School Committee. State elections, which occur in even-numbered years, and especially elections including the election for President, experience the highest turnout. 63% of Worcester’s electorate voted in the November 2016 general election and 45% of registered voters turned out for the 2018 election.

Worcester: Party Affiliation & Registration	
Party Affiliation	Registered Voters
Unenrolled	49,158
Democrat	39,682
Republican	7,824
United Independent Party	872
Libertarian	412
Green Rainbow	105
Interdependent 3rd Party	73
Conservative Party	62
Massachusetts Independent Party	55
American Independent Party	50
Socialist	29
Working Families	26
Green Party USA	25
Pizza Party	24
We the People	14
Latino Vote Party	13
America First Party	12
Pirate	10
Constitution Party	8
Reform Party	6
Veterans Party America	3
Timesizing Not Downsizing	3
Rainbow Coalition	2
Prohibition Party	1
Twelve Visions Party	1
World Citizens Party	1
American Term Limits	1

As of January 29, 2019. Source: City of Worcester Elections Division.

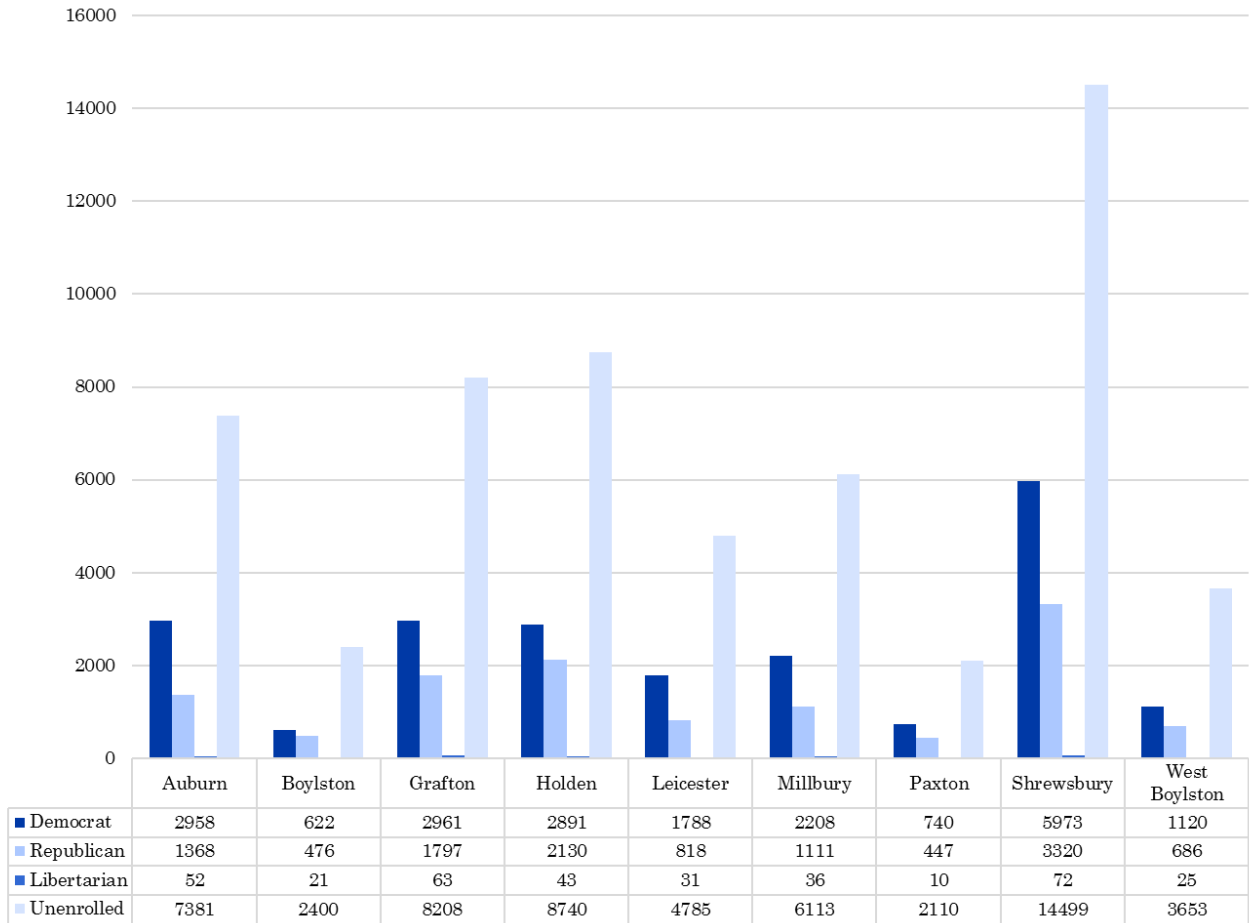
As of January 2019, there were 98,472 registered voters in the City of Worcester. 49.9% of voters were not enrolled in a political party, 40.2% of voters registered as Democrats, and 7.9% of voters registered as Republicans. Since 2015, the number of unenrolled voters has increased by 17%, the number of Democratic voters has decreased by .4%, and the number of Republicans has increased by 2%.

Worcester: Voter Turnout by Precinct, November 6, 2018 Election



Source: Worcester Election Commission

Greater Worcester: Party Affiliation & Registration, as of October 2018



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, FY19*	
Type	Fiscal Year 2019
Residential	\$18
Commercial/Industrial/Personal Property (CIP)	\$34.90

* 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.

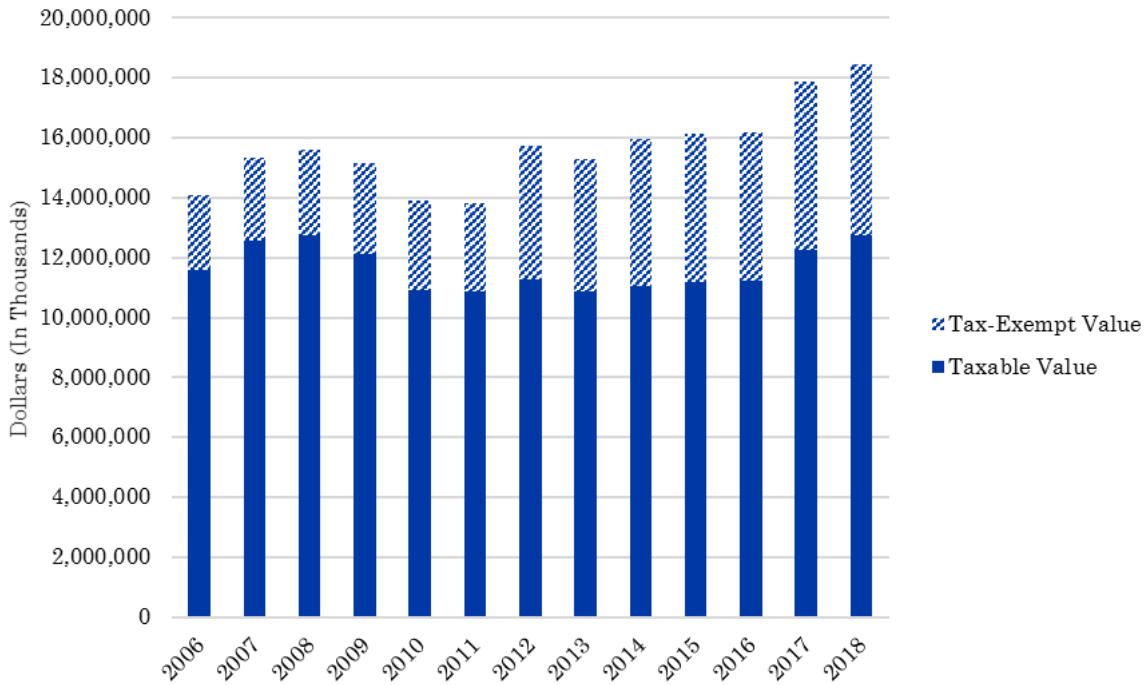
Worcester: Tax Shift, FY19			
Lowest Residential Factor Allowed	Residential Factor Selected	Maximum CIP Shift Allowed	CIP Shift
.735	.803	1.75	1.5574

Source: City of Worcester Assessor's Office.

Worcester: Tax Value of Property, FY19		
Tax Status	Estimated Value	Percent of Total
Total Taxable and Tax-Exempt Property Value	\$18,585,919,931	100%
<i>Taxable Property Values</i>	<i>\$12,725,214,403</i>	<i>68%</i>
<i>Tax-Exempt Property Values</i>	<i>\$5,860,705,528</i>	<i>32%</i>
Class		
Residential	\$9,999,307,558	54%
Commercial/Industrial/Personal Property	\$2,725,906,845	15%

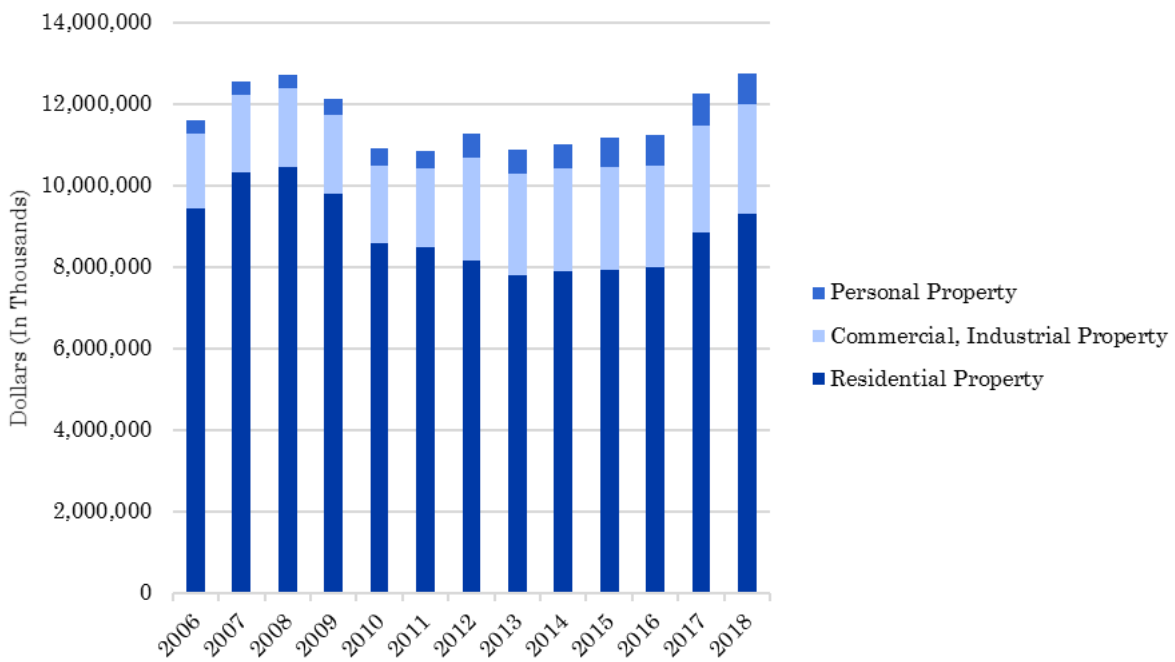
Source: City of Worcester Assessor's Office.

Worcester: Assessed Value of Taxable & Tax-Exempt Property, 2006-2018



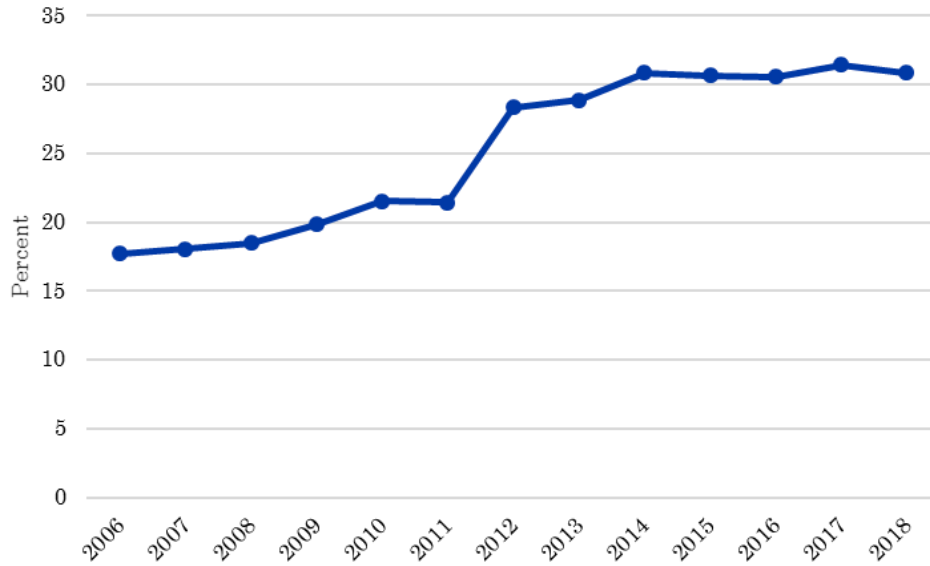
Source: City of Worcester Comprehensive Annual Financial Report, 2018.

Worcester: Assessed Value of Taxable Property by Classification, 2006-2018



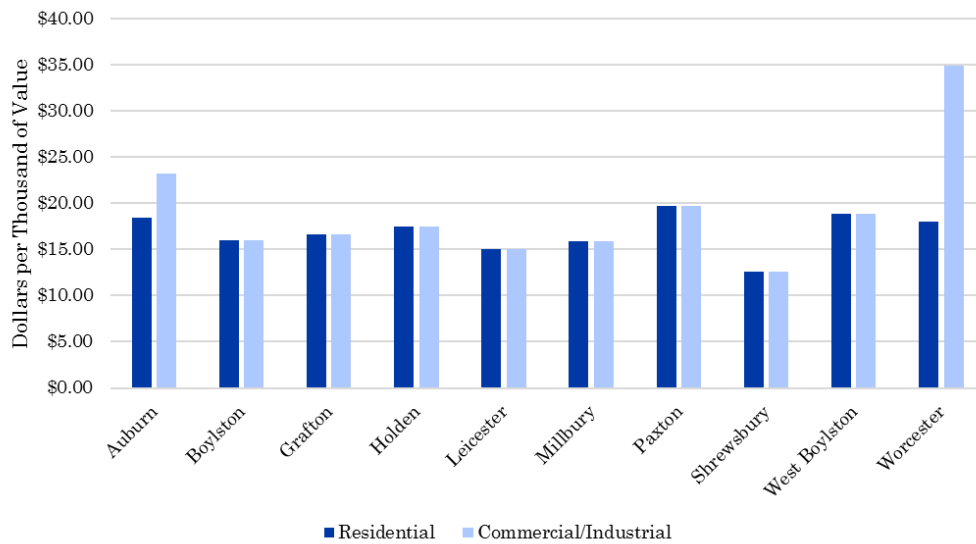
Source: City of Worcester Comprehensive Annual Financial Report, 2018.

Worcester: Tax-Exempt Value as Percent of Total Property Values, 2006-2018



Source: City of Worcester Comprehensive Annual Financial Report, 2018.

Greater Worcester: Property Tax Rates, FY19



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.

Worcester: Other Taxes, FY18*		
Meals		
	Tax Rate	Actual
General Fund (Funds Go To Taxing Authority)		
State	6.25%	\$23,260,101
Local	.75%	\$3,060,540
DCU Center Special Finance District (Funds Go To City)		
State	6.25%	\$849,905
Local	.75%	\$101,989
Room Occupancy		
	Tax Rate	Actual
General Fund (Funds Go To Taxing Authority)		
State	6.25%	\$1,208,235
Local	6%	\$1,271,827
DCU Center Special Finance District (Funds Go To City)		
State	5.7%	\$762,611
Local	6%	\$802,748
Motor Vehicle		
Motor Vehicle Excise	\$25 per \$1000	\$16,134,089

Source: City of Worcester Administration & Finance.

*The DCU Center Special Finance District was created in 2006, when a home rule petition filed with the state legislature authorized the City of Worcester to create a specially-taxed area that would allow reinvestment in the former Worcester Centrum. The state tax rate remains in place at the DCU Center, nearby hotels and other neighboring buildings, but revenues collected are returned to the City and earmarked for DCU Center-related expenses.

Worcester: Principal Taxpayers, FY18*				
Taxpayer	Type of Business	Assessed Valuation	Fiscal 2018 Tax Bill	% of Tax Levy
Massachusetts Electric Co.	Electric Utility	\$408,336	\$13,896	4.7
NSTAR Gas Co.	Gas Utility	\$182,941	\$6,225	2.1
VHS Acquisition Subsidiary (St Vincent Hospital)	Medical Care	\$146,514	\$4,986	1.7
V3B SA LLC (Lincoln Plaza)	Shopping Plaza	\$64,281	\$2,187	0.7
Worcester TC LLC (AbbVie)	Biotechnology Park	\$59,839	\$2,036	0.7
Hanover Insurance Group	Insurance	\$58,708	\$1,998	0.7
RK Worcester Crossing LLC	Real Estate	\$42,679	\$1,452	0.5
Front Street Associates LLC	Real Estate	\$42,403	\$1,443	0.5
Verizon New England	Communications	\$40,403	\$1,375	0.5
S-BNK Worcester Main LLC	Real Estate	\$20,687	\$1,044	0.4

*Amounts expressed in thousands.

Source: City of Worcester Comprehensive Annual Financial Report, June 30, 2017.

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, June 30, 2018	
Total Pension Liability	\$1,462,371
Funded Portion of Pension Liability	\$952,444
Funded Pension Obligation	65.13%

Source: City of Worcester Comprehensive Annual Financial Report, June 30, 2018.

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, June 30, 2018	
Total OPEB Liability	\$802,709,000
Funded Portion of OPEB Liability	\$15,009,000
Funded OPEB Obligation	1.8%

Source: City of Worcester Comprehensive Annual Financial Report, June 30, 2018.

Worcester: Fund Balance, FY18*	
Fund Balance—FY17	\$57,386,000
Change in Fund Balance—FY16 to FY17	\$5,250,000
Fund Balance as a % of FY18 Budget	6.7%

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

Source: City of Worcester Comprehensive Annual Financial Report, 2018.

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.

Worcester: Bond Ratings, 2018	
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, 2018.

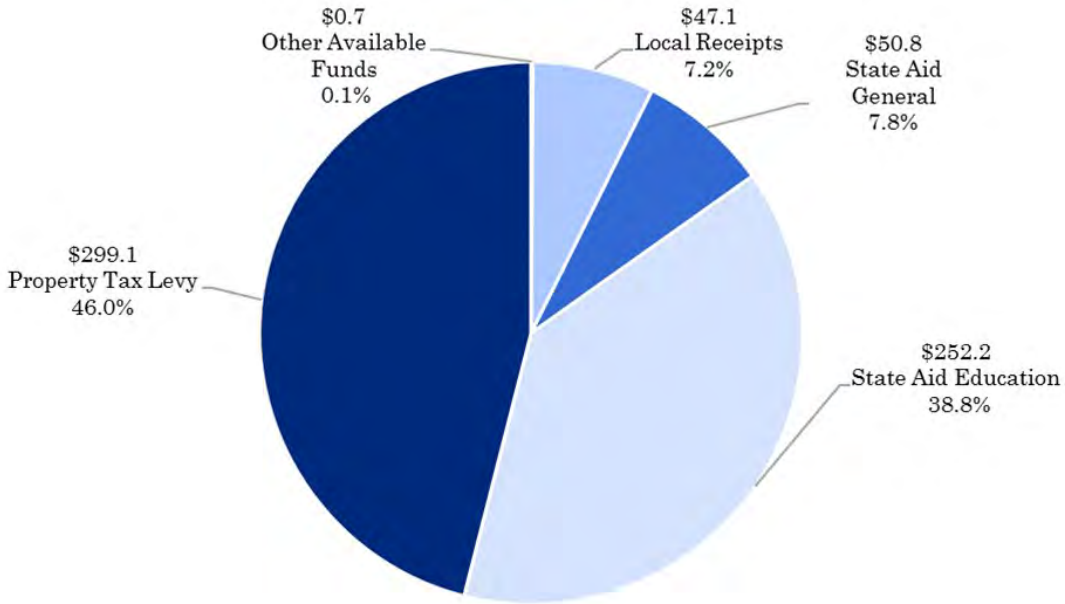
Worcester: Public Debt, 2018	
Total Outstanding Long-Term Indebtedness as of 1/22/18	\$670,278,932
<i>Self-Supporting Debt*</i>	<i>\$235,489,085</i>
Bond Anticipation Notes as of 6/30/2016	\$68,031,999
Bonded Debt per Capita	\$3,632.79
Bonded Debt as a % of Assessed Valuation	5.27%

*Self-supporting debt includes water, sewer, CitySquare, public garages, the DCU Special District, and other enterprise accounts.
Source: City of Worcester.

Greater Worcester: FY19 Budgets						
	Total City Budget (Including Schools)	Education Budget	Education % of Total Budget	Police Budget	Fire Budget	Police & Fire % of Total Budget
Auburn	\$66,972,606	\$25,849,562	38.6%	\$4,574,157	\$3,082,977	11.4%
Boylston	\$15,616,224	\$9,313,149	59.6%	\$1,844,332		11.8%
Grafton	\$61,662,139	\$35,006,960	56.7%	\$2,288,935	\$728,279	4.9%
Holden	\$52,250,286	\$27,903,567	53.4%	\$2,968,588	\$2,503,953	10.5%
Leicester	\$28,124,736	\$16,372,364	58.2%	\$1,885,111	\$305,307	9.5%
Millbury	\$44,161,032	\$22,668,493	51.3%	\$2,436,085	\$709,641	7.1%
Paxton	\$13,355,643	\$6,577,056	49.2%	\$1,135,193	\$332,316	11.0%
Shrewsbury	\$122,330,643	\$64,137,607	52.4%	\$5,195,267	\$3,554,284	7.2%
West Boylston	\$24,529,378	\$12,045,167	49.1%	\$1,689,054	\$766,161	10.0%
Worcester	\$649,900,000	\$370,700,000	57.0%	\$49,485,740	\$40,072,247	13.8%

Sources: Individual Town Budgets.

Worcester: Budgeted Revenues in Millions of Dollars, FY19



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, including updates for health insurance and special education costs.

Worcester: Budgeted Expenditures, FY19

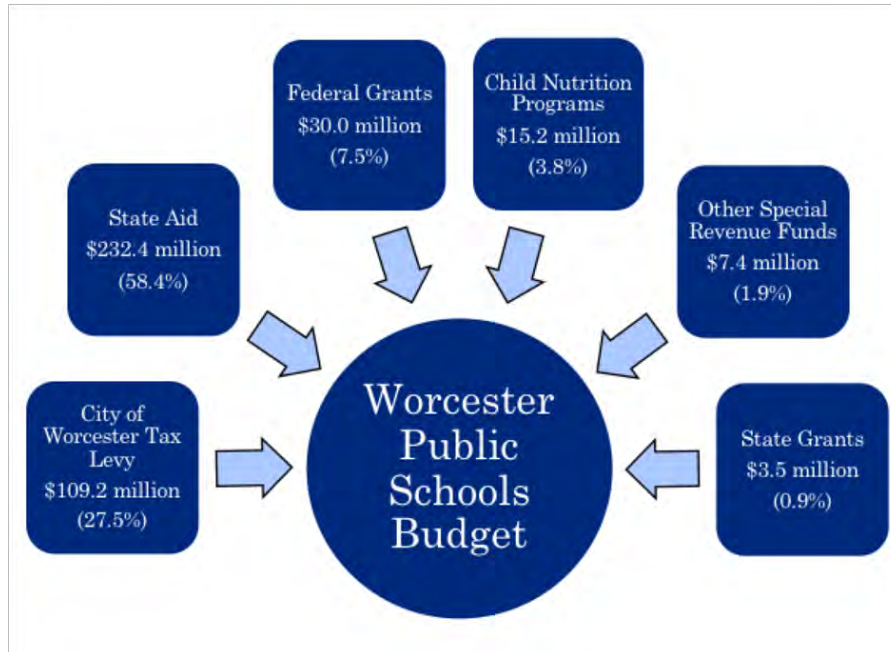
The City’s final FY19 budget was \$649.9 million. City leadership has discretion over only a small part of the City’s expenditures. A significant portion of the City’s annual budget is fixed obligations to education, pensions, and debt service.



Source: City of Worcester.

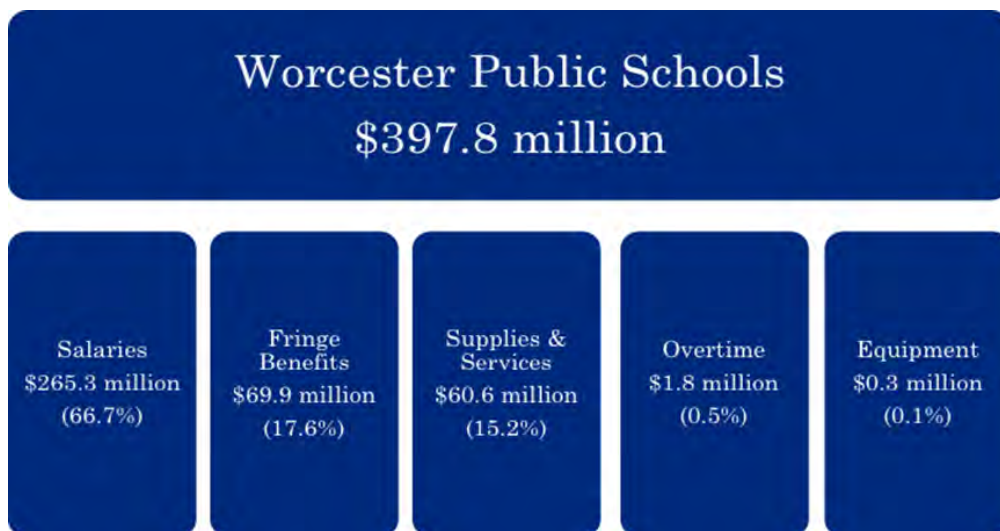
The Worcester Public Schools allocation within the City budget is augmented by available Federal, State, and other outside grants.

Worcester Public Schools: Budgeted Revenues, FY19



Sources: City of Worcester & Worcester Public Schools Fiscal 2019 Budgets.

Worcester Public Schools: Budgeted Expenditures, FY19



Sources: City of Worcester & Worcester Public Schools Fiscal 2019 Budgets.

Worcester: Budgeted Employee Counts, FY19	
Positions	# of Budgeted Employees
Legislative Offices	
City Council	11
Mayor's Office	2
City Clerk	10
Election Commission	9
City Auditor	8
Retirement	0
City Manager's Office	
City Manager's Office	10
Elder Affairs	8
Public Library	100
Dept. of Economic Development	
Economic Development	37
Workforce Investment Board	10
Workforce Central Career Center	35
Cable Services	4
License Commission	3
Health and Human Services	
Public Health	26
Human Resources	18
Law Department	15
Police Department	548
Fire Department	441
Emergency Communications	68
Dept. of Inspectional Services	61
Worcester Public Schools	4,244
Public Works and Parks	
Golf	2
Public Works	198
Parks, Recreation, and Hope Cemetery	56
Enterprise: Sewer Division	69
Enterprise: Water Division	137
Administration & Finance	
Finance	41
Assessing	10
Technical Services	33
City Energy and Asset Management	14
TOTAL: CITY ONLY	2,002
TOTAL: CITY & WPS	6,246

Source: City of Worcester.

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 6,246 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 Public Schools: Budgeted Employee Counts, FY19	
Positions	# of Budgeted Employees
District Administrators	24
School Administrators	82
Teachers	2,250
Instructional Assistants	598
Teacher Substitutes	97
Crossing Guards	106
Educational Support	71
Custodial Services	154
Maintenance	32
Full Year Clerical	63
School Year Clerical	71
School Nurses	89
District Support	52
Student Transportation	103
Child Nutrition	313
Head Start	139
TOTAL WPS	4,244

Worcester: Real Estate Investment, 2011-2018



Source: City of Worcester Executive Office of Economic Development.

Worcester: Water and Sewer Rates, 2018						
	FY14	FY15	FY16	FY17	FY18	FY19
Water Rates	\$3.51	\$3.54	\$3.60	\$3.60	\$3.67	\$3.67
Sewer Rates	\$5.94	\$6.29	\$6.62	\$6.92	\$7.08	\$7.43

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, 2018	
# of Independent Branches	3
# of School-Based Branches	4
# of Mobile Libraries	2
Print Holdings (including periodicals)	607,705
Total Circulation	877,398
Total Number of Visits During Public Hours	580,605
Total Number of Students at School based branches during class time	47,925

Source: Worcester Public Library.

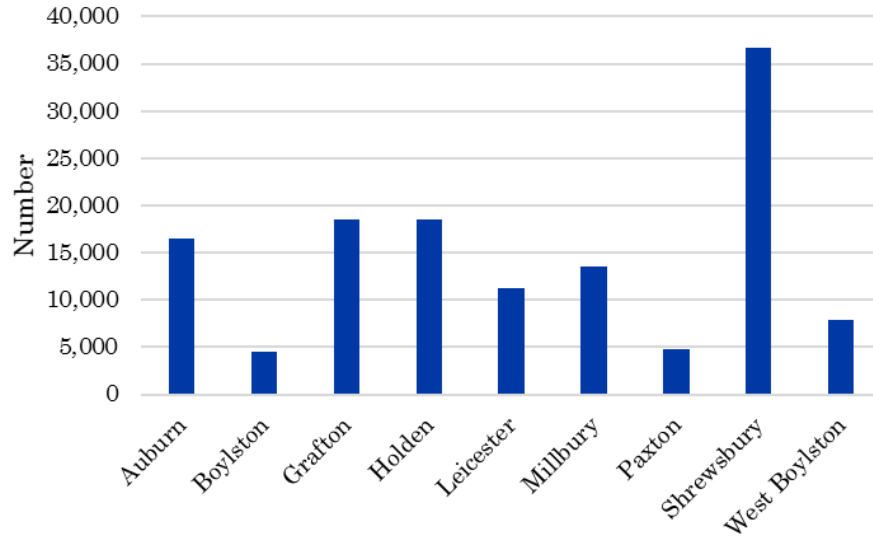
Worcester: Parks and Recreation, 2018	
Parks	60
Dog Parks	3
Playgrounds	34
Fields for Sports	124
Swimming Beach, Pool, Spray Parks	7
Total Park Acreage	1,316.05
% of Total Acreage in City	6.3%
State Parks	1
State Pools and Beaches	3

Sources: City of Worcester Department of Public Works & Parks; Commonwealth of Massachusetts.



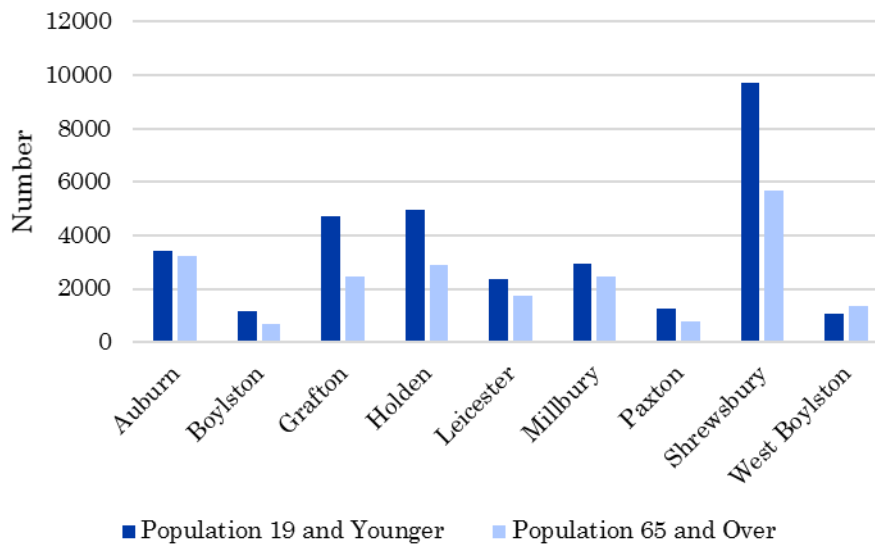
Demographics & Economy

Greater Worcester: Population, 2017



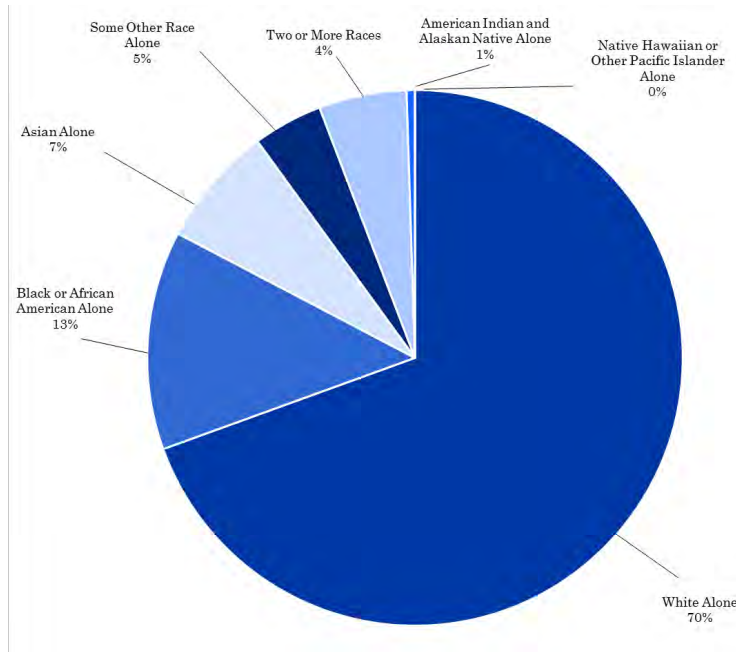
Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Greater Worcester: Population 19 Years of Age or Under and Population 65 Years of Age or Over, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Population by Race, 2017

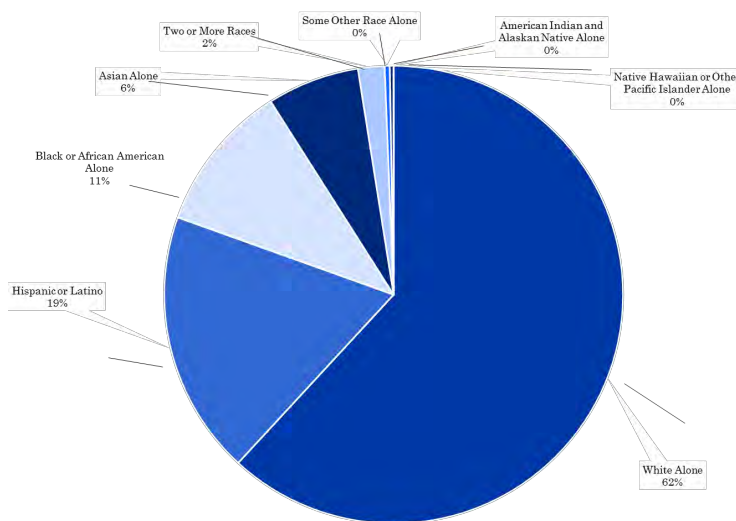


Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

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, 2017” 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.

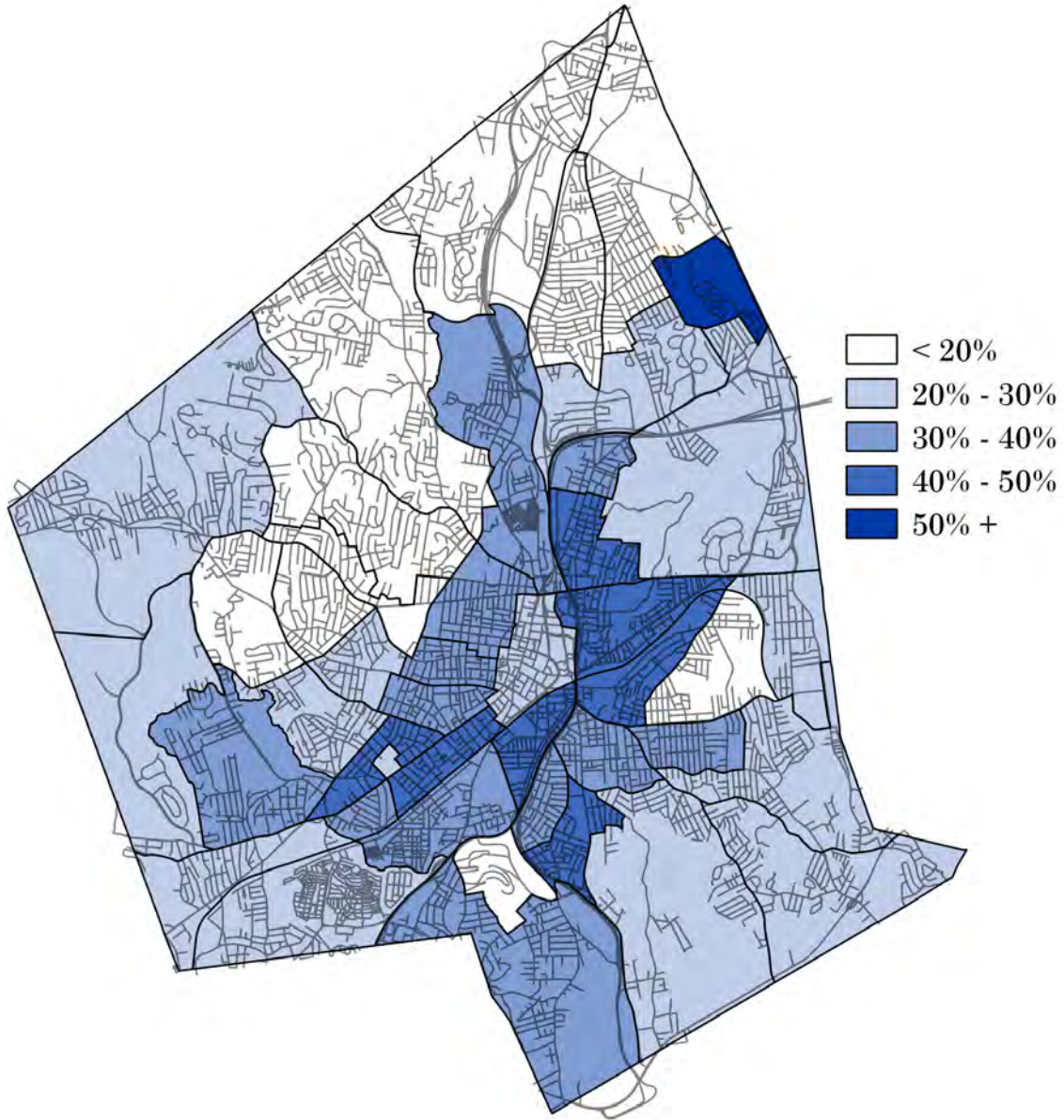
Worcester: Population by Race & Ethnicity, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

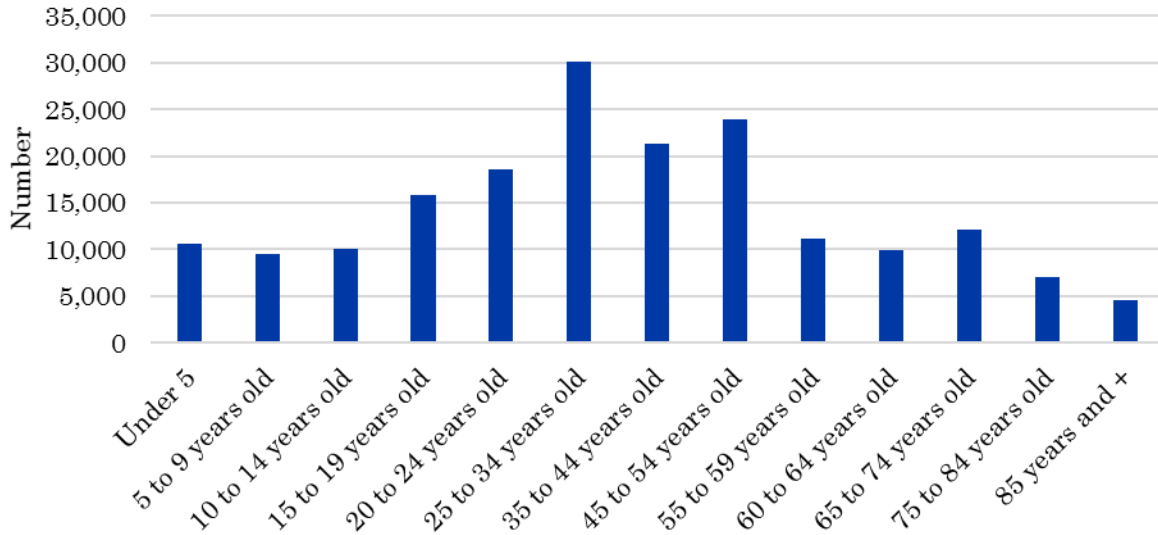
“Worcester Population by Race & Ethnicity, 2017” illustrates Worcester’s population by both race and ethnicity. It indicates that people who identify as Hispanic or Latino make up approximately 21% of Worcester’s population, however it does not account for their racial composition and therefore may undercount certain racial categories.

Worcester: Percent Non-White Population, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

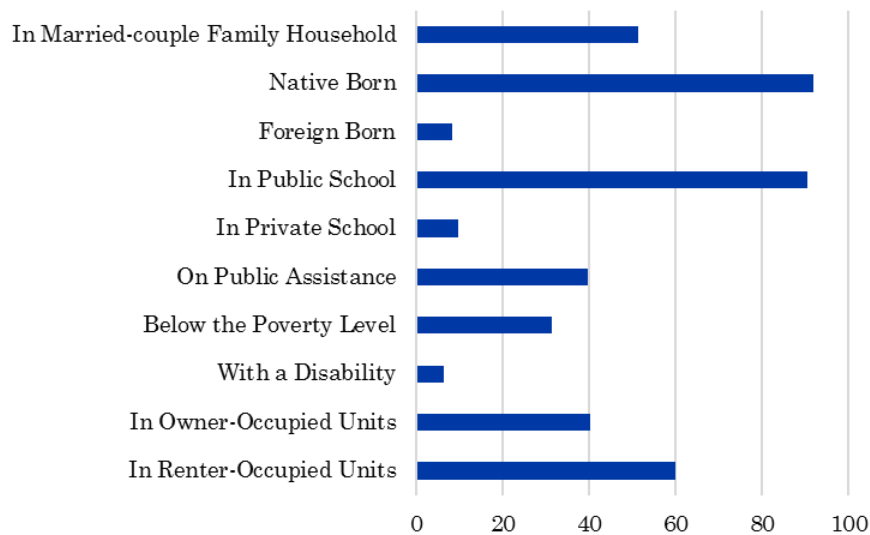
Worcester: Population by Age, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

According to the U.S. Census Bureau, the median age of Worcester residents is 34.2 years old. The median age of Massachusetts is 39.4 and the median age of the United States is 37.8 years old.

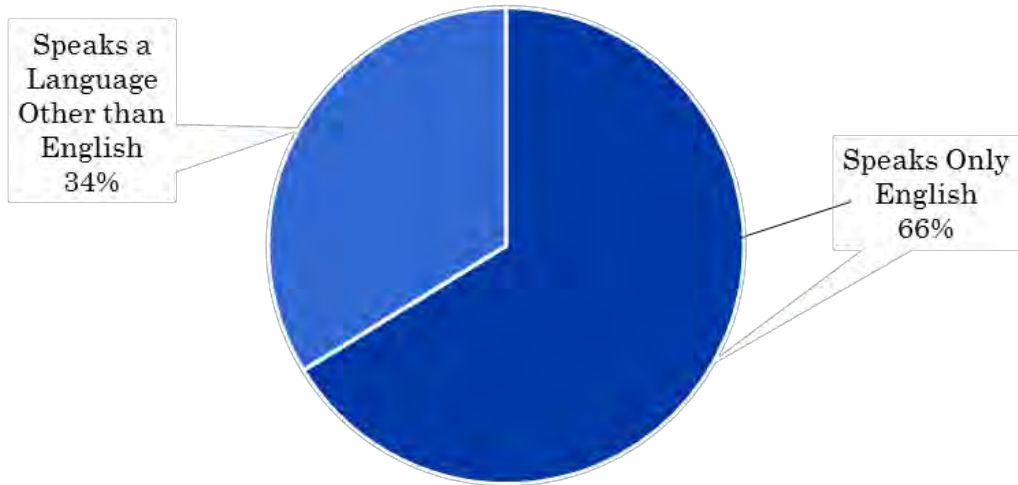
Worcester: Characteristics of the Under-18 Population by Percent, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

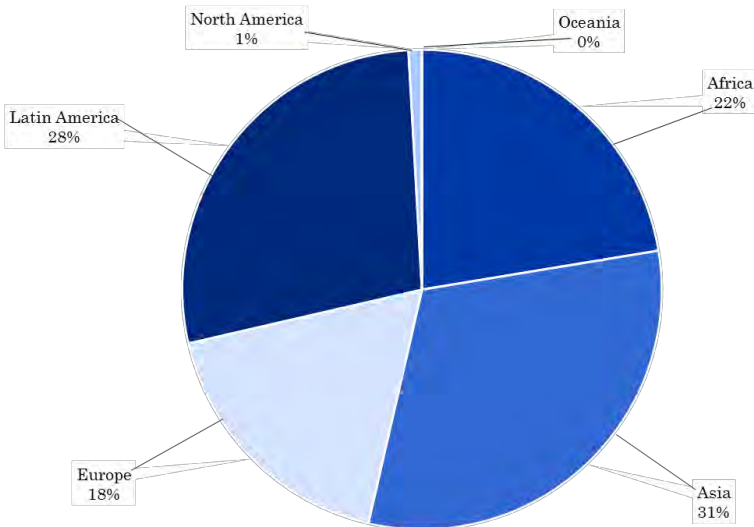
Worcester: Language Spoken At Home, 2017*

In 2017, 66% of the Worcester population spoke only English. Of the other languages spoken by Worcester residents, 15% spoke Spanish, and 19% spoke another language. According to the Worcester Public Schools, more than 90 languages are spoken by children in the school system.



*For population 5 years and older.
 Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Region of Origin of Foreign Born Residents, 2017



Approximately one in five residents of Worcester was born outside the United States, with 31% of those residents originating in Asia, followed closely by Latin America.

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Foreign Born Residents, 2017		
Total Foreign Born	Foreign Born Naturalized Citizen	Foreign Born Not US Citizen
39,932	18,171	20,761

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

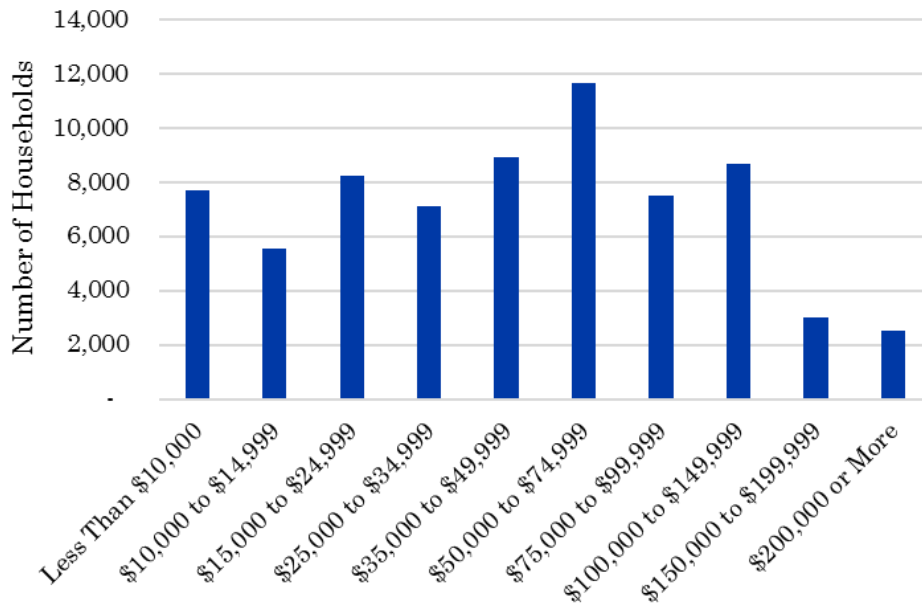
Worcester: Number of Residents from the Top 10 Countries of Origin, 2011 and 2017			
	2011		2017
Vietnam	3,506	Ghana	3,857
Brazil	3,461	Vietnam	3,666
Ghana	3,358	Dominican Republic	3,129
Dominican Republic	2,705	Albania	2,727
Albania	2,115	Brazil	1,804
El Salvador	1,724	China, excluding Taiwan and Hong Kong	1,643
China, excluding Taiwan and Hong Kong	1,341	India	1,431
Poland	1,137	Kenya	1,403
Kenya	905	Iraq	1,159
India	694	El Salvador	1,150
Total	20,946	Total	21,969

Sources: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Households, 2017	
Total # of Households	70,792
<i>Family Households</i>	<i>54.2%</i>
<i>Non-Family Households</i>	<i>45.8%</i>
<i>Households with Children under 18</i>	<i>26.4%</i>
<i>Average Household Size</i>	<i>2.43</i>
Average Household Size	
<i>Owner-occupied</i>	<i>2.64</i>
<i>Housing Renter-occupied</i>	<i>2.27</i>
Median Household Income	\$45,869

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Household Income, 2017

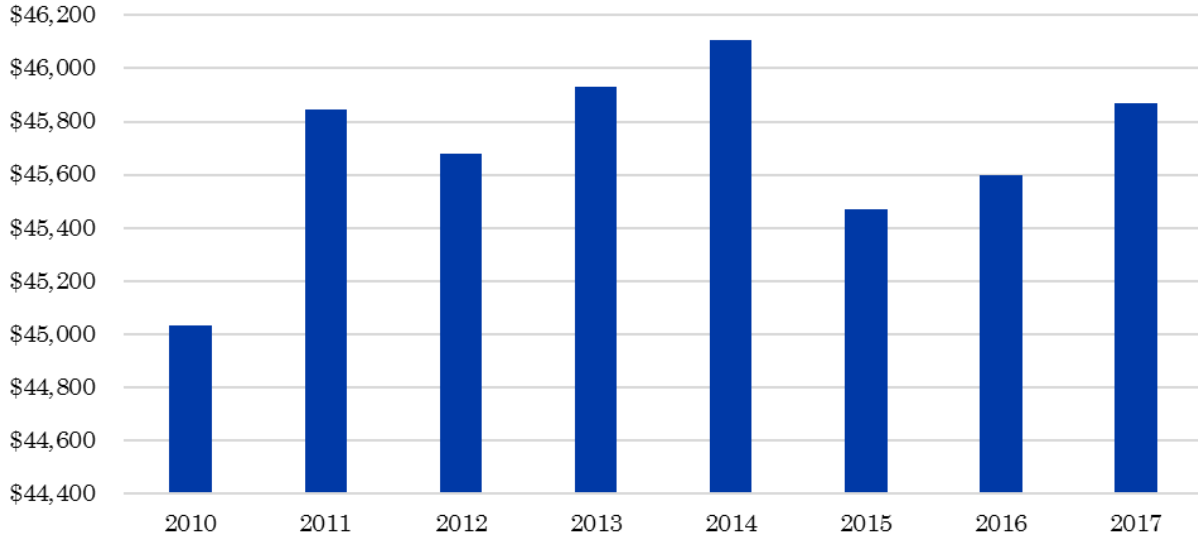


Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

“Median Household Income” is the income that has 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 \$45,869, the median household income of Massachusetts is \$74,167, and the median household income of the United States is \$57,652. According to the U.S. Department of Housing and Urban Development, the Worcester Area Median Family Income (which includes Worcester and surrounding towns) is \$85,700.

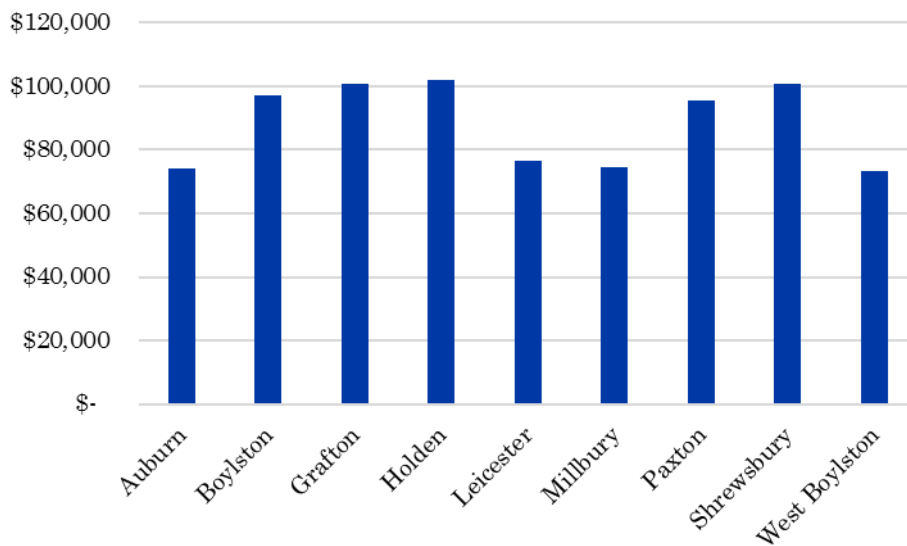
Income

Worcester: Median Household Income, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Greater Worcester: Median Household Income, 2017



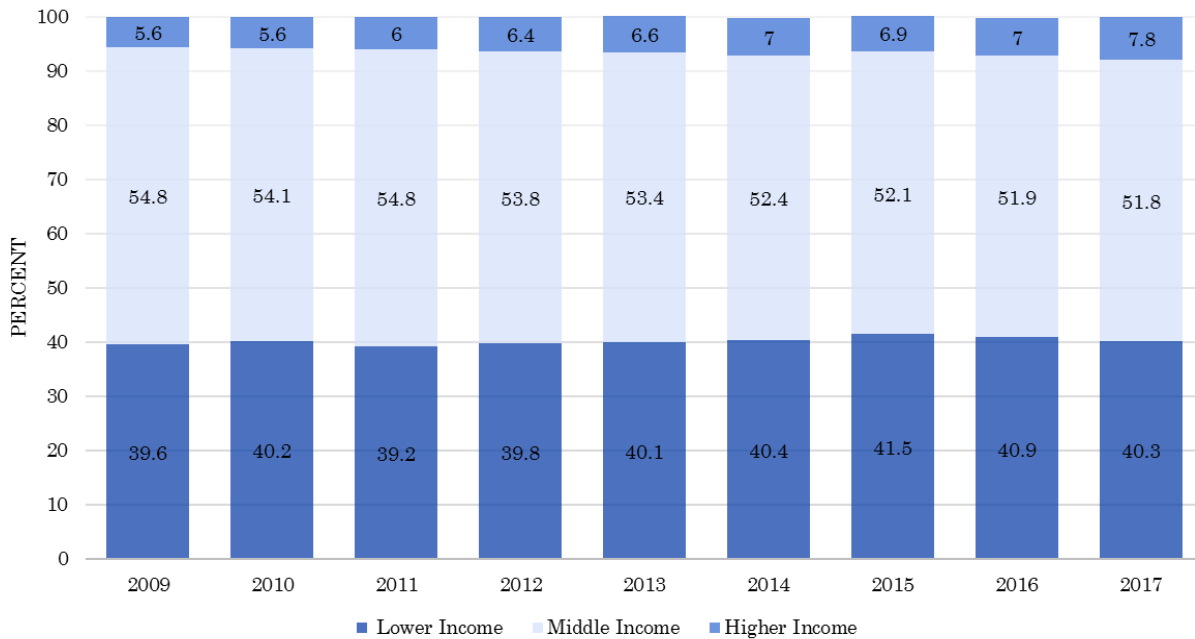
Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

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 \$74,167, a middle class household income would range from \$49,691 to \$148,334. 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 uses the closest categories to approximate The Pew Research Center’s definition of middle income for Worcester. In 2017, approximately 51.8% of Worcester households were in the middle income range, 40.3% of Worcester households were in the lower income range, and 7.8% of Worcester households were in the upper income range.

<i>Income Ranges</i>		
Lower Income: \$0—\$34,999	Middle Income: \$35,000—\$149,999	Higher Income: \$150,000+

Worcester: % of Households by Income Level, 2009 - 2017



Sources: U.S. Census Bureau, 2017 5-Year American Community Surveys.

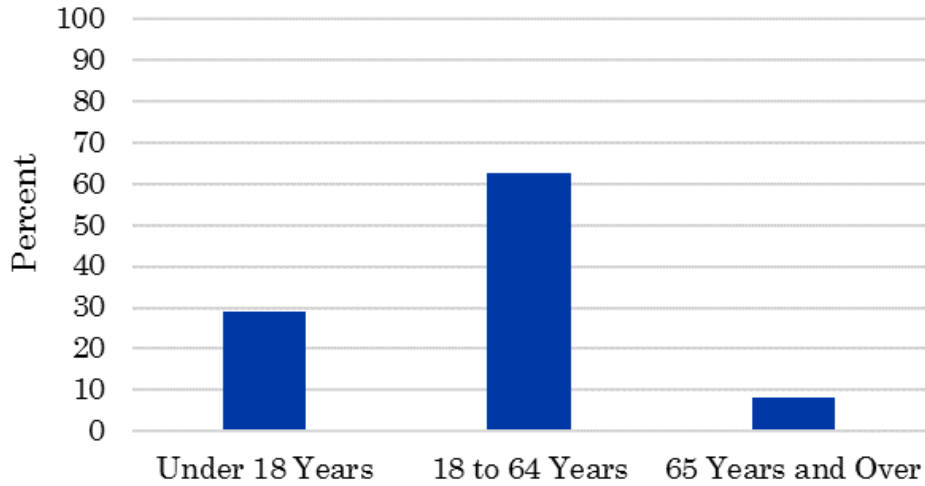
***According to Pew Research Center:**

“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.

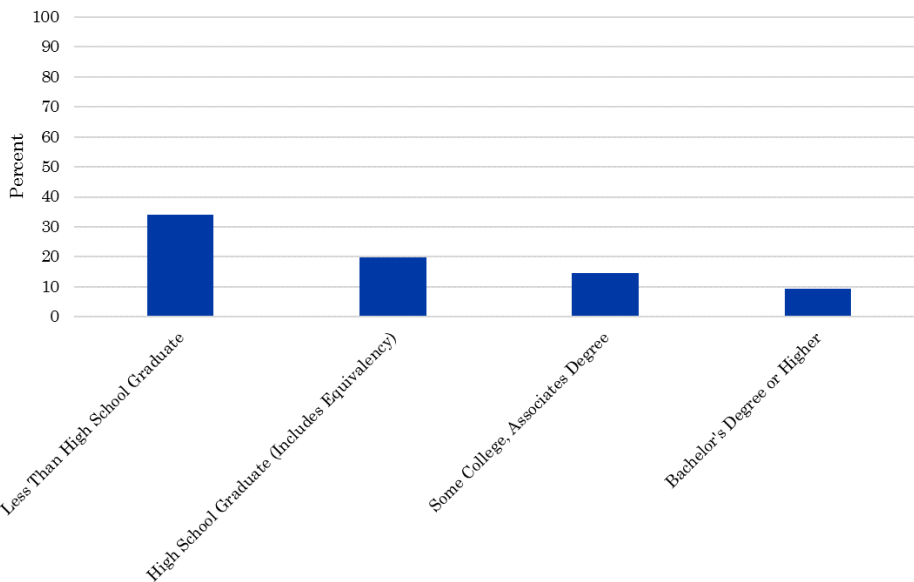
According to the U.S. Census Bureau, 21.8% of Worcester’s population is below the poverty level, while 11.1% of the Massachusetts population and 14.6% of the United States population is below the poverty level. The weighted average poverty threshold for a family of four in 2018 is \$25,750. Poverty is defined using pre-tax income.

Worcester: Poverty by Age for Population Below Poverty Level, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

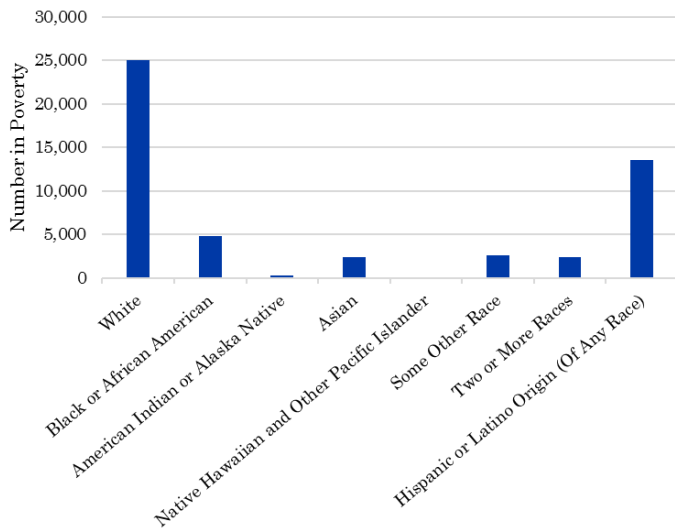
Worcester: Percent in Poverty by Educational Attainment, 2017*



*For population 25 years old and over.

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

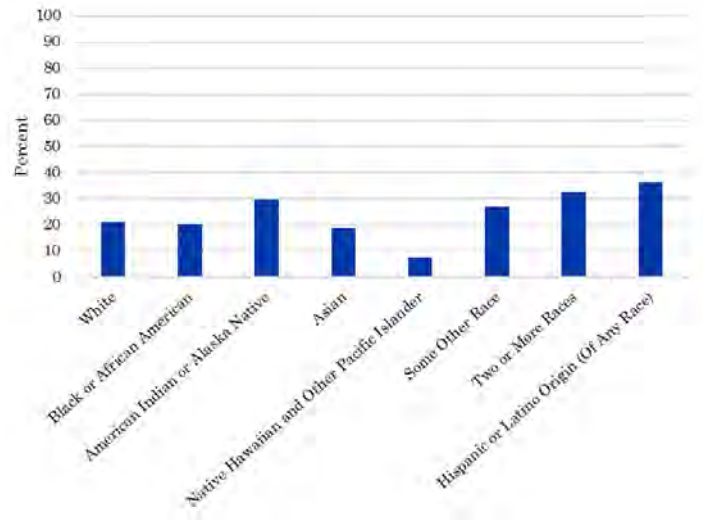
Worcester: Number in Poverty by Race, 2017



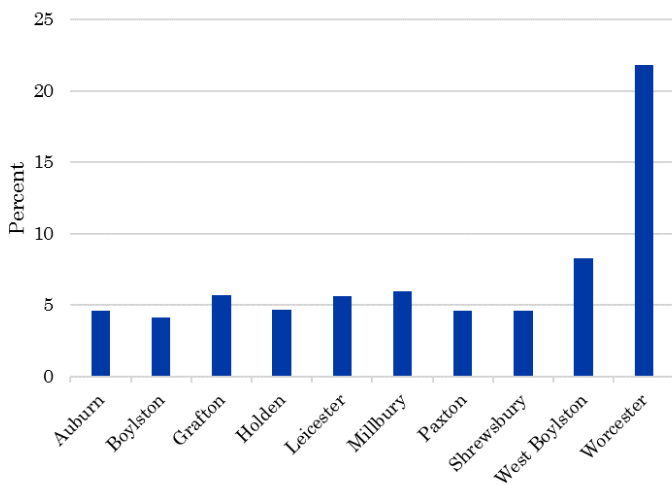
While the highest number of Worcester residents in poverty are White, people of Hispanic or Latino origin are more likely to live in poverty than all other racial and ethnic categories.

Source for all charts on this page: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Percent in Poverty, 2017

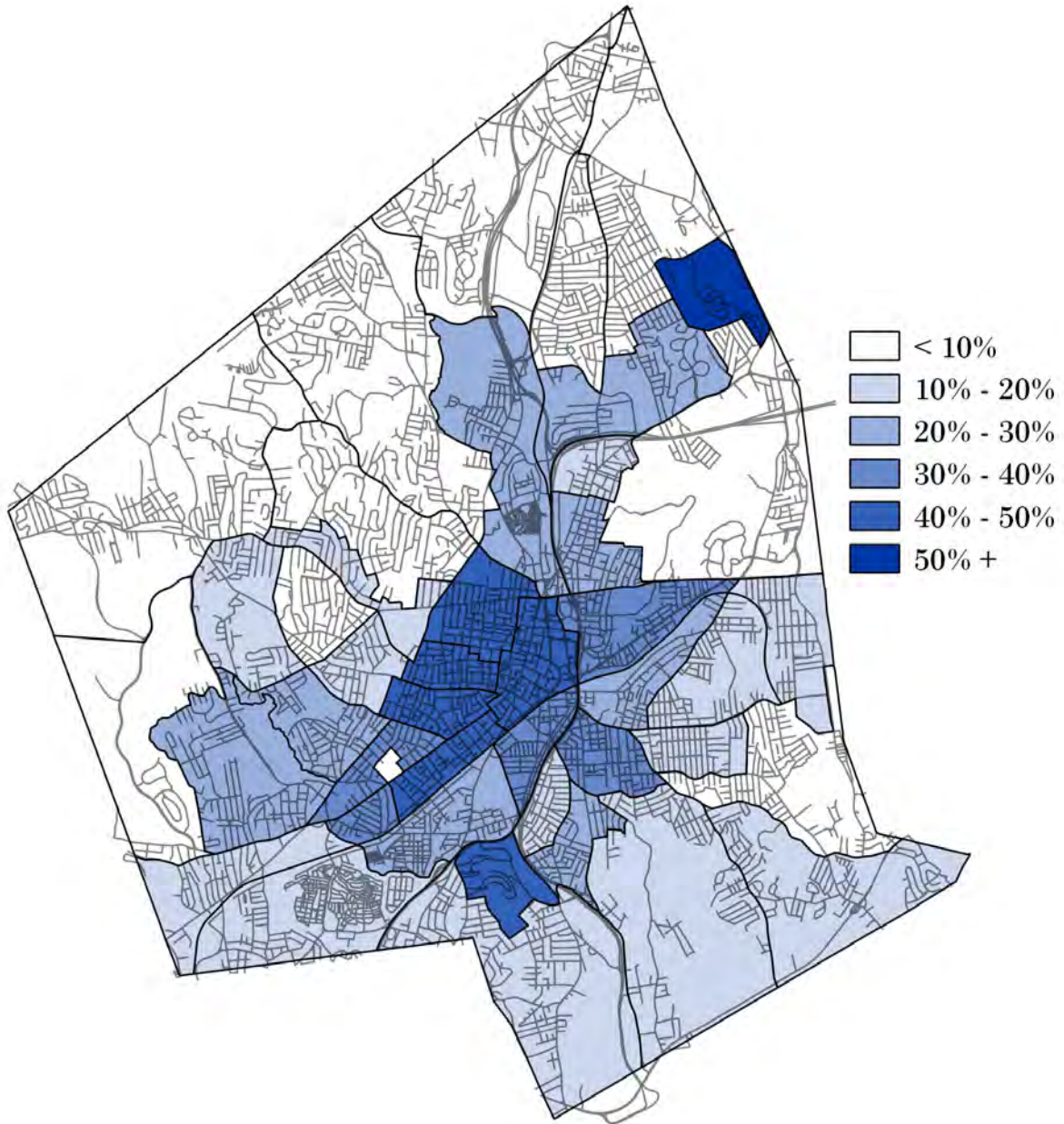


Greater Worcester: Percent in Poverty, 2017



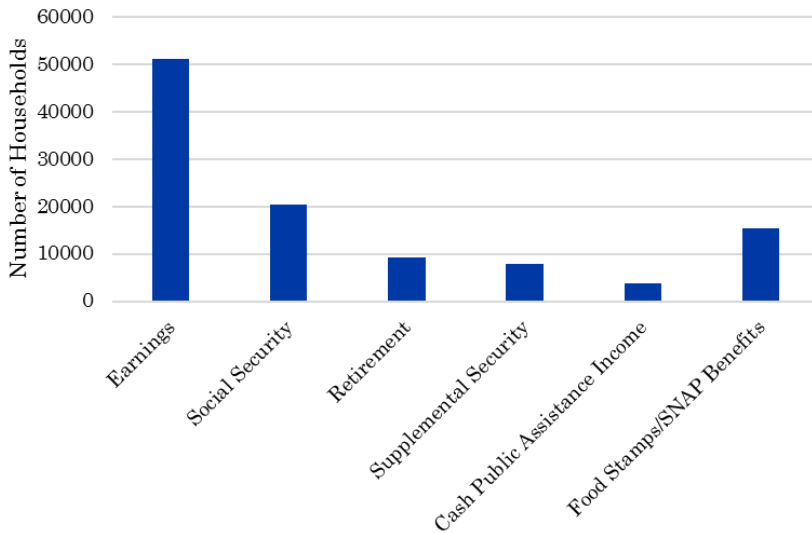
Poverty

Worcester: Percent of Residents Below Poverty Level, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Sources of Household Income, 2017



In 2017, the majority of Worcester’s households derive some part of their income through earnings. Other income sources included Social Security and Food Stamps/SNAP (Supplemental Nutrition Assistance Program) benefits.

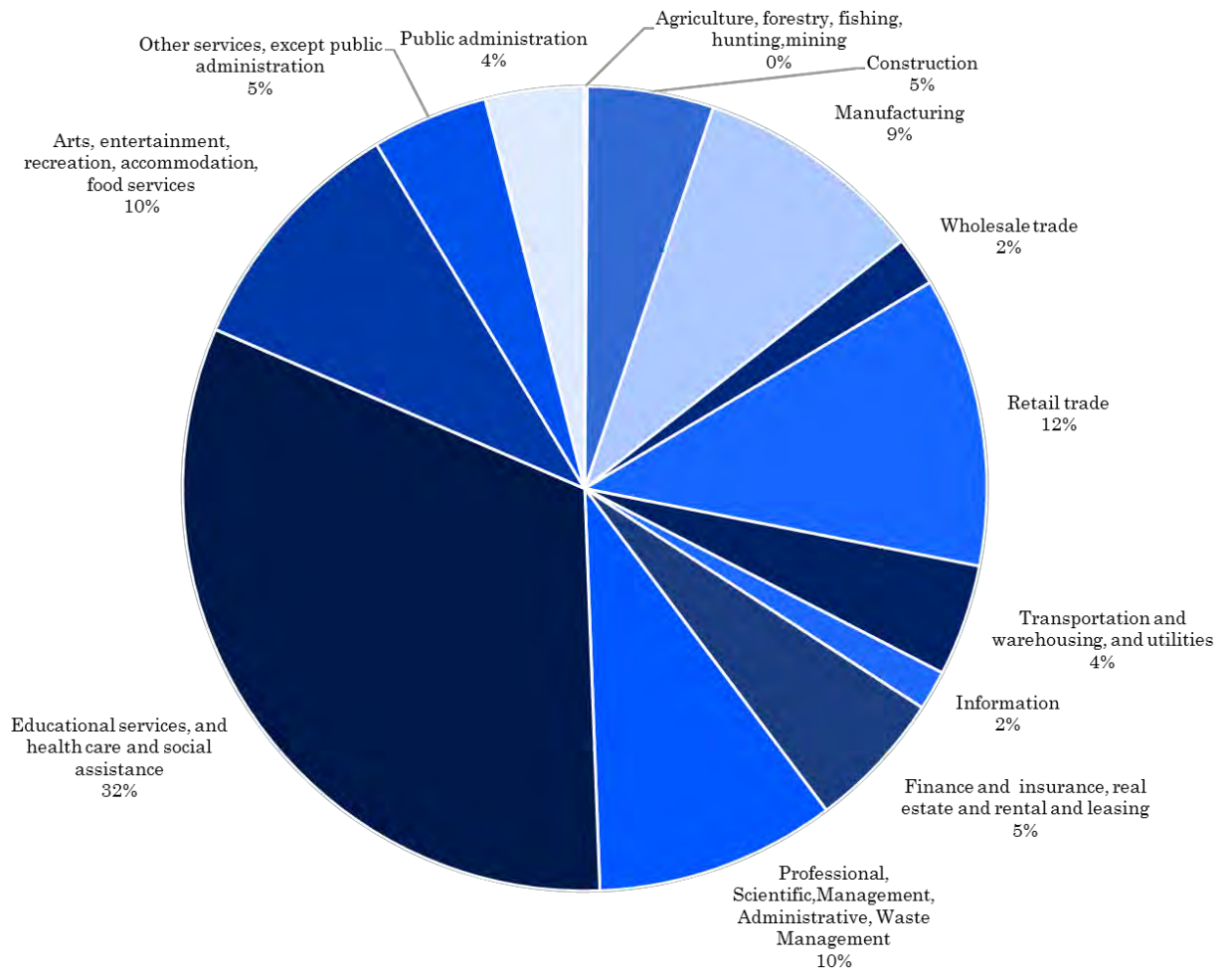
Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester Economic Index, 2018	
Month	Worcester Economic Index
January	117.6
February	118.1
March	118.3
April	118.7
May	119.0
June	119.3
July	119.6
August	119.9
September	120.5
October	120.2
November	120.7
December	121.1

The quarterly Worcester Economic Indicators Report, developed by Thomas White, Professor in the Economics and Global Studies department at Assumption College, measures the health of the City of Worcester’s economy using three variables: nonfarm payroll data, total household employment, and the unemployment rate. The base year is January 2001 (January 2001 = 100).

Source: Thomas White, Assumption College.

Worcester: Employment by Industry, 2017

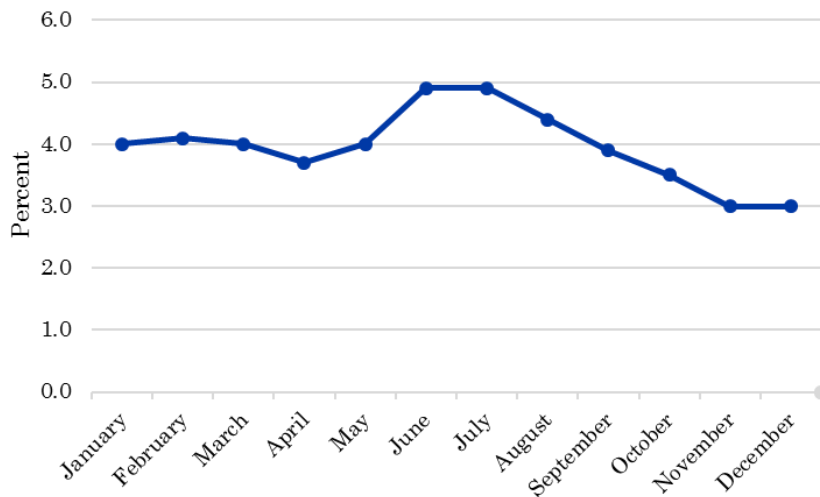


Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Employment & Wages by Industry, 2017		
Industry	Employees	Median Earnings
Public Administration	4,082	\$57,106
Finance and Insurance, and Real Estate and Rental and Leasing	4,814	\$46,850
Information	1,385	\$42,877
Professional, Scientific, Management, Administrative Waste Management	8,379	\$41,524
Manufacturing	8,000	\$41,669
Construction	4,421	\$43,623
Wholesale Trade	1,757	\$42,378
Educational Services, Health Care, Social Assistance	27,777	\$33,805
Transportation, Warehousing, Utilities	3,838	\$33,567
Agriculture, Forestry, Fishing, Hunting, Mining	114	\$28,428
Retail Trade	10,094	\$22,704
Other Services, except Public Administration	4,082	\$25,135
Arts, Entertainment, Recreation, Accommodation Services	8,522	\$16,655

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Unemployment Rate, 2018

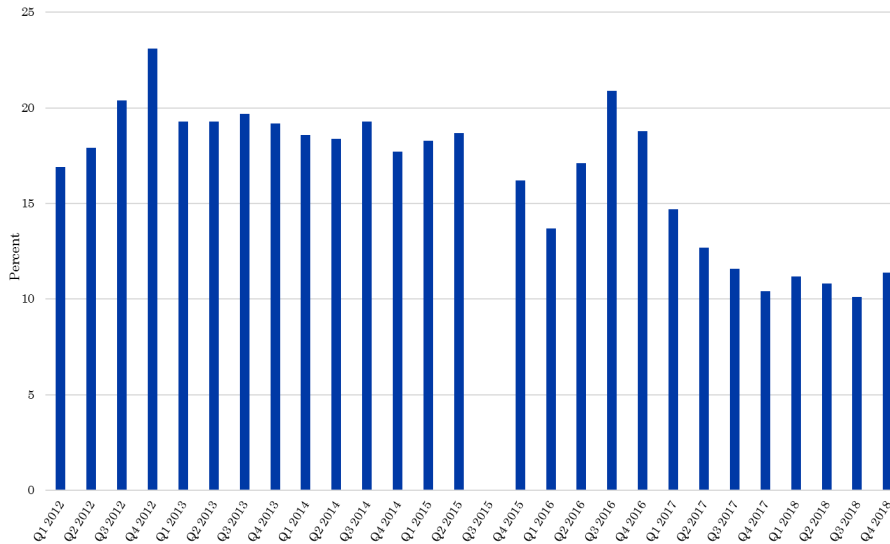


December numbers are preliminary. Source: Bureau of Labor Statistics.

Worcester: Office and R&D Space, 2018				
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Square Feet (SF) Supply	2,891,924	2,891,924	2,891,924	2,891,924
Direct SF Available	283,313	273,346	251,370	273,835
Sublease SF Available	39,942	39,942	39,942	54,913
Vacancy Rate %	11.2	10.8	10.1	11.4

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

Worcester: Quarterly Office & R&D Vacancy Rate, 2012-2018



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.

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

Worcester: Hotels, 2018	
	Rooms
Beechwood Hotel	73
Courtyard Worcester	134
Hampton Inn & Suites	100
Hilton Garden Inn Worcester	199
Holiday Inn Express Worcester Downtown	96
Homewood Suites by Hilton	118
Quality Inn & Suites Worcester	114
Residence Inn Worcester	129
Total Hotel Rooms	963

Source: Discover Central Massachusetts.

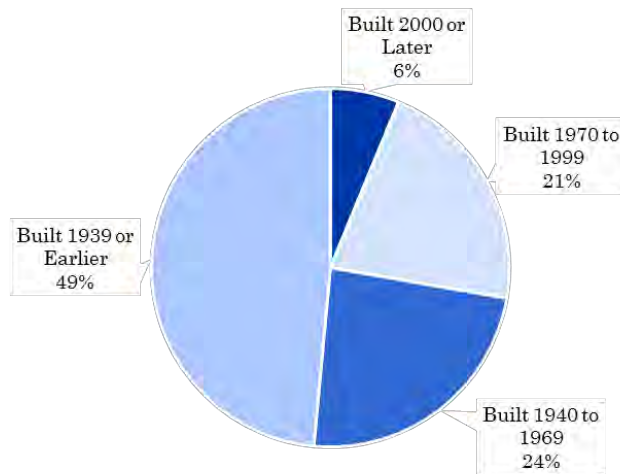
Worcester: Hotel Market, 2018	
Occupancy	74.5%
Supply	398,245 Room Nights
Demand	296,719 Room Nights
Average Daily Rate (ADR)	\$139.35
Revenue per Available Room	\$103.82

Source: Discover Central Massachusetts.

Worcester: Housing Units, 2017	
Total Housing Units	78,036
Occupied Housing Units	70,792
Vacant housing Units	7,244
Housing Units in Multi-Unit Structures	48,199

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

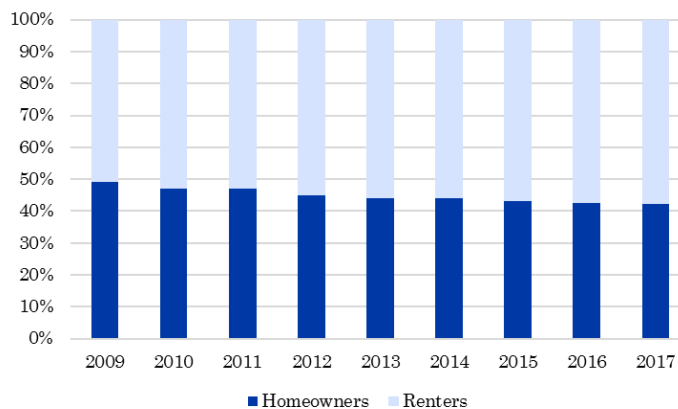
Worcester: Age of Housing Stock, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

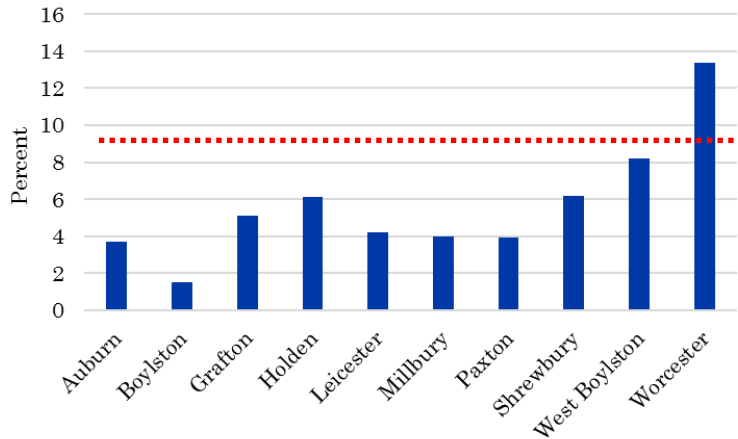
Worcester: Owner-Occupied, and Renter-Occupied as a Percent of Total Households, 2009-2017

In 2017 there were 70,792 occupied housing units in Worcester. Of those households 29,825 (42.1%) were owner-occupied and 40,967 (57.9%) were renter-occupied.



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

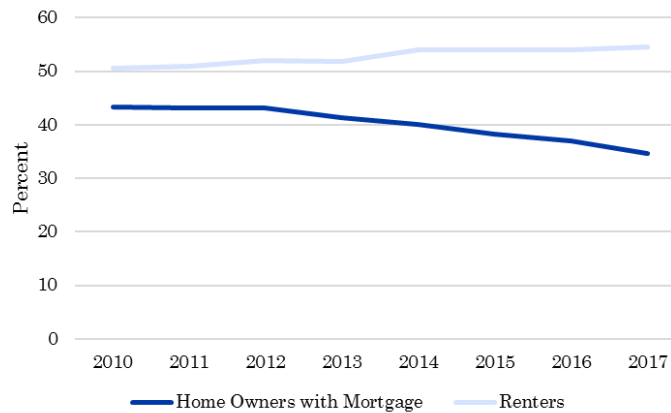
Greater Worcester: Chapter 40B Subsidized Housing Inventory*



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.

*As of September 2017. Red line indicates 10% threshold called for under Chapter 40B. Source: Massachusetts Department of Housing & Community Development.

Worcester: Percent of Households Spending 30% or More of Income on Housing, 2010-2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Point-in-Time Count (PIT)

The PIT Count counts the number of sheltered and unsheltered homeless persons on a single night during the last week in January. The U.S. Department of Housing and Urban Development (HUD) requires that communities receiving federal funds from the McKinney-Vento Homeless Assistance Grants program conduct the PIT annually.

Annual City of Worcester Point-In-Time January 31, 2018					
	Sheltered			Unsheltered	Total
	Emergency Shelter	Transitional Housing	Safe Haven		
# under age 18	569	100	0	0	669
# ages 18-24	92	60	0	21	173
# ages 24 and older	534	314	13	149	1010
Total Homeless	1195	474	13	170	1852

Source: Central Massachusetts Housing Alliance.

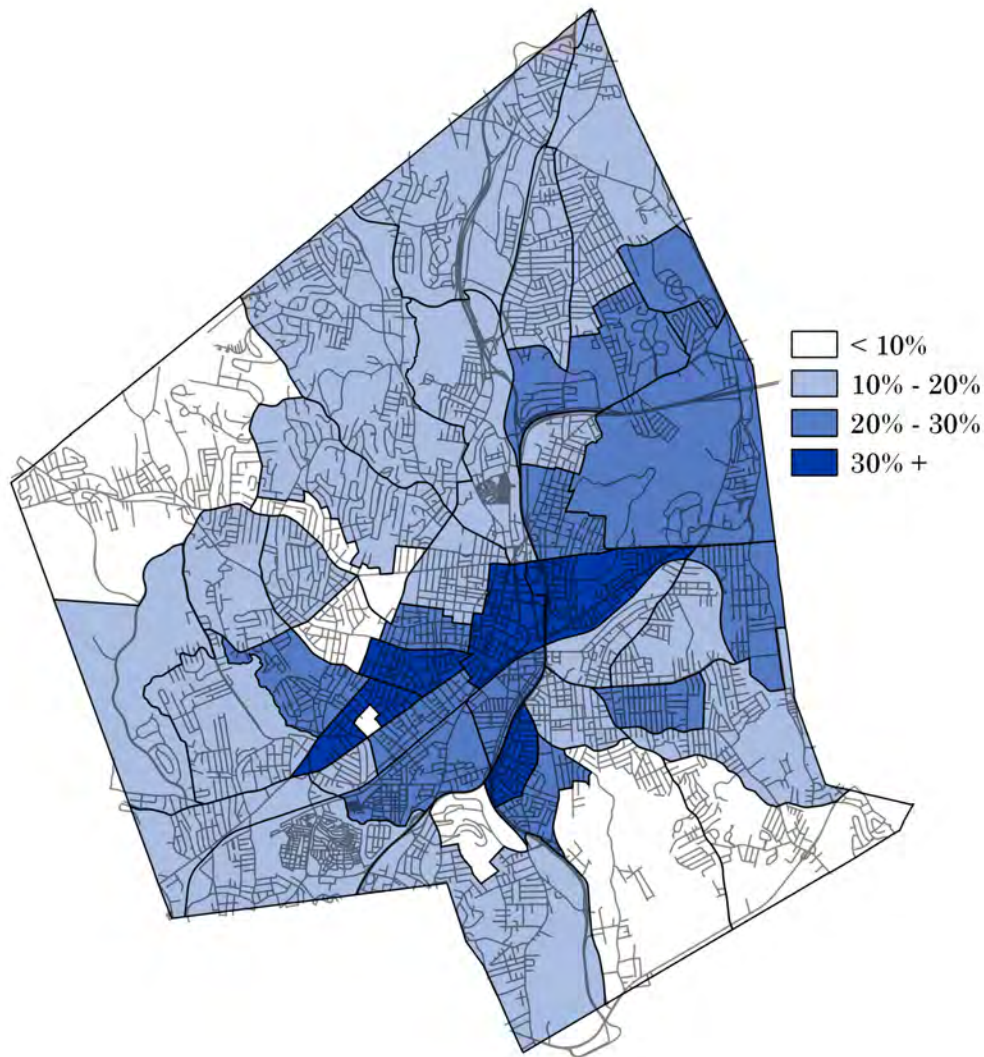
Worcester: Veterans, 2017	
Number of Veterans	7,612
Veterans as % of Population 18 and Older	5.1%
% of Veterans—Male	94%
% of Veterans—Female	6%
% of Veterans—Disabled	33.2%
% of Veterans—Below the Poverty Line	11.5%
Period of Service	
Gulf War (September 2001 or later)	1,035
Gulf War (August 1990 to August 2001)	858
Vietnam War	2,279
Korean War	861
World War II	784

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Household Internet Access Metrics	
With an Internet Subscription	76%
Broadband of any Type	76%
Cellular Data Plan	44%
Satellite Internet Service	3%
Internet Access Without Subscription	4%
No Internet Access	20%

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Percent of Households with No Internet Access



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Health

Worcester: Vital Statistics, 2018	
Births*	6,184
Deaths	3,401
Marriages	1,439

*All births in Worcester, regardless of Mother's residency.
Source: City of Worcester Clerk's Office.

Number of Resident Births, Worcester 2016*	
Number of Births	2,372
Low Birth Weight**	179
Pre-term	206

*Births to mothers who report Worcester as their place of residence.
**Babies weighing less than 5 pounds, 3 ounces.
Source: Massachusetts Department of Public Health.

Resident Teen Births, Worcester 2016*		
	2005	2016
Number of Teen Births	262	102
Teen Birth Rate**	37.2	13.2

*Births to mothers who report Worcester as their place of residence.
**Birth rates represent the number of births per 1,000 females ages 15-19.
Source: Massachusetts Department of Public Health.

Worcester: Age-Adjusted Rates for Select Causes of Death, 2016*	
Mortality (All Cause)	859.8
Cancer	333
Heart Disease	299
Chronic Lower Respiratory	75
Stroke	65
Diabetes	42
Pneumonia/Influenza	45
Opioid-Related Fatal Overdose	74
Suicide	19
Motor Vehicle	11
Homicide	6

*Per 100,000 population age-adjusted to 2000 US Standard Population calculated using MDPH population estimates for 2010.

Source: Massachusetts Department of Public Health.

Greater Worcester: Number of Confirmed Opioid Related Overdose Deaths, 2013-2017					
	2013	2014	2015	2016	2017
Auburn	3	1	0	0	1
Boylston	0	0	1	0	0
Grafton	2	1	2	0	0
Holden	0	2	1	2	0
Leicester	1	0	1	1	2
Millbury	1	0	1	3	2
Paxton	1	1	0	0	0
Shrewsbury	4	1	1	3	7
West Boylston	0	1	0	2	2
Worcester	61	86	119	109	114

Source: Massachusetts Department of Public Health.

Worcester: Uninsured, 2017*				
	Worcester		Massachusetts	
	Number	Percent	Number	Percent
Uninsured	6,035	3.3%	200,294	3%

*Non-institutionalized population.

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Number of Beds— Licensed or Certified Health Care Facilities, December 2018	
Acute Hospitals	1,017
Non-Acute Hospitals	390
Renal Dialysis	47
Nursing Homes	2,315
Rest Homes	360

Source: Massachusetts Department of Public Health.

Worcester: National Institutes of Health Funding, 2018		
CG Scientific	1 Award	\$749,990
Clark University	2 Awards	\$601,200
GoBlue International, LLC	1 Award	\$339,481
Microbiotix, Inc.	10 Awards	\$3,693,999
Nirogyone Therapeutics, LLC	2 Awards	\$200,000
Signablock, Inc.	2 Awards	\$451,219
University of Massachusetts Medical School	345 Awards	\$160,982,250
Worcester Polytechnic Institute	13 Awards	\$4,680,702
Zata Pharmaceuticals, Inc.	1 Award	\$402,225
Total	377 Awards	\$172,101,066

Source: National Institutes of Health.

Education

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

65% → 76%

ENROLL IN POSTSECONDARY OPPORTUNITIES^B

17% → 14%

REDUCE CHRONIC ABSENTEEISM

1:4 → 1:1

ACCESS TECHNOLOGY (STUDENT TO DEVICE RATIO)

WPS WILL

INCREASE PER PUPIL EXPENDITURE BY

↑ 8%

INCREASE NUMBER OF HIGH PERFORMING SCHOOLS BY

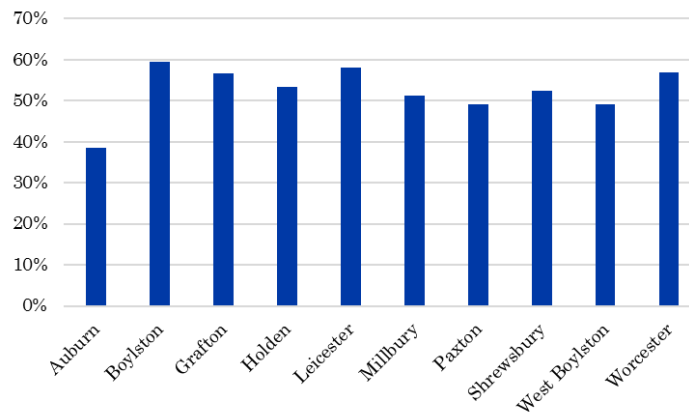
↑ 20%

INCREASE DIVERSITY OF NEW HIRES BY

↑ 25%

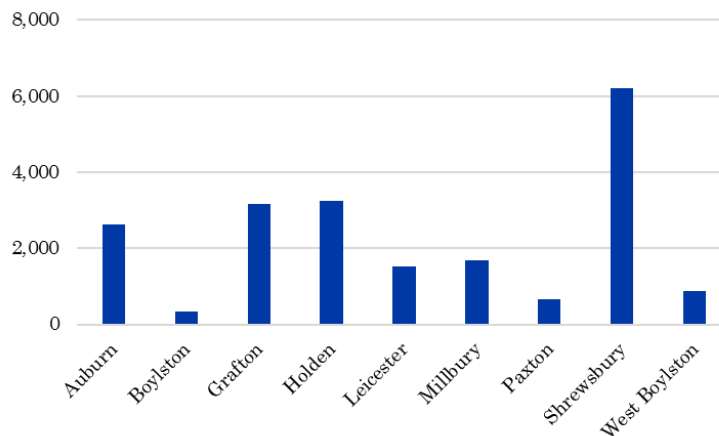
For more information and a full copy of the strategic plan visit: worcesterschoolsstrategicplan.wrrb.org

Greater Worcester: Education as Percent of FY19 Municipal Budget



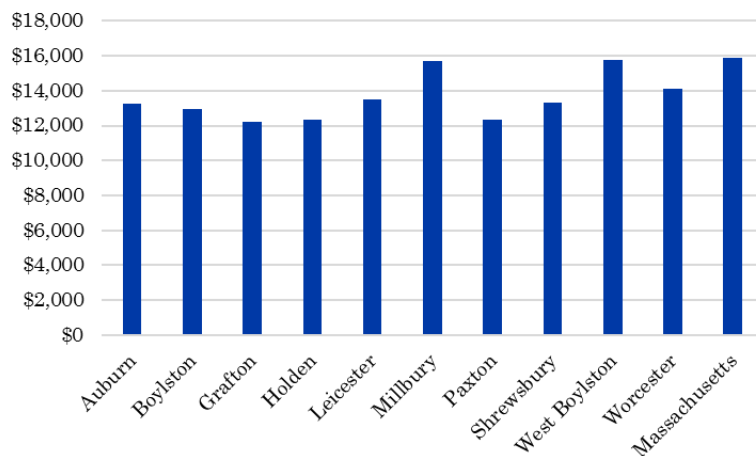
Sources: Individual Town Budgets.

Greater Worcester: Number of Students, 2018-2019



Sources: Massachusetts Department of Elementary & Secondary Education, and the Wachusett Regional School District.

Greater Worcester: Per Pupil Spending, 2017



The town of Boylston oversees a K-5 elementary school and is part of the Berlin-Boylston Regional School District for Grades 6-12.

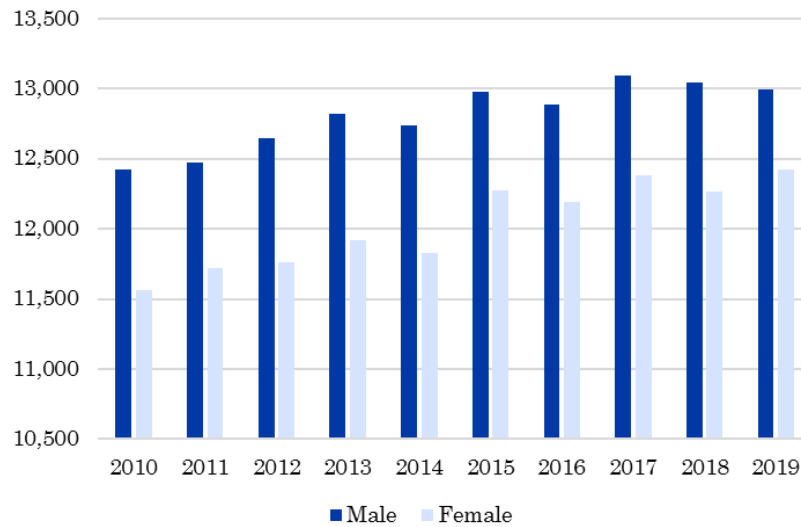
The towns of Holden and Paxton are part of the Wachusett Regional School District, the largest regional district in the Commonwealth. Per-pupil spending reflects district wide spending.

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: 2018-2019		
	# of Schools	# of Students
Elementary Schools	33	14,037
Middle Schools 6-8	1	902
Middle Schools 7-8	3	2,427
Grade 7-12 Schools	2	786
High Schools	5	6,712
Head Start Program	1	551
<i>Total</i>	<i>45</i>	<i>25,415</i>

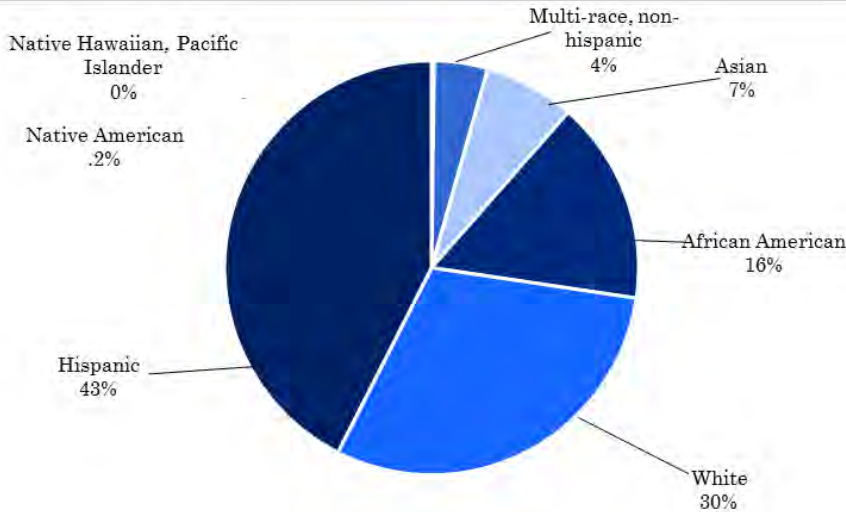
Source: Worcester Public Schools & Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Enrollment by Gender, 2010-2019



Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Enrollment by Race/Ethnicity, 2018-2019

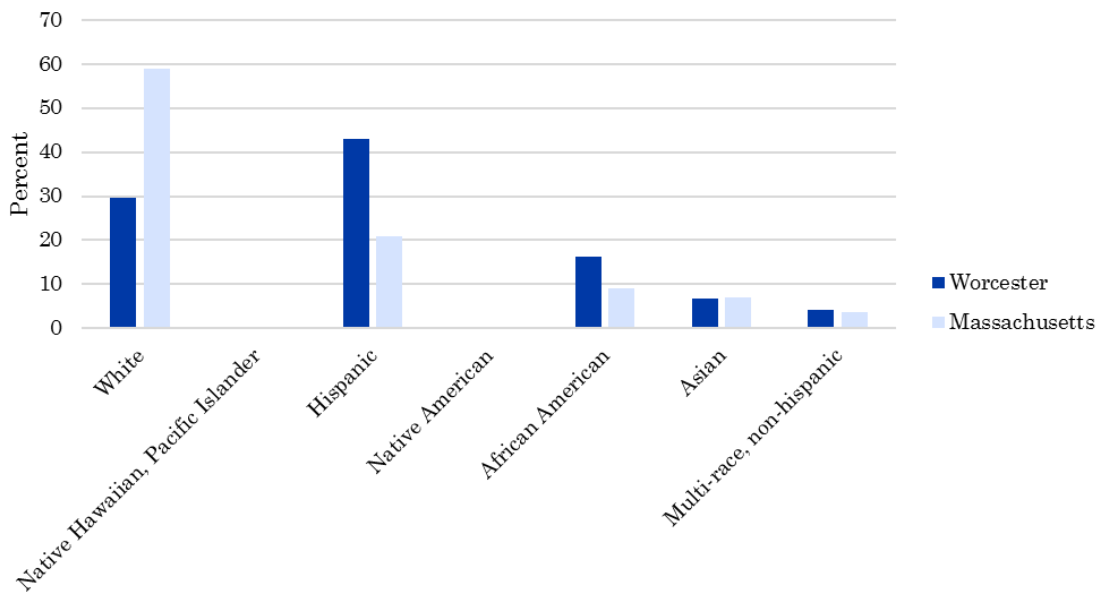


The U.S. Census Bureau tallies five categories of race: “American Indian or Alaska Native,” “Asian,” “Black or African American,” “Native Hawaiian or Other Pacific Islander,” and “White.” Hispanic origin is defined as ethnicity, rather than race, and persons defined as Hispanic or Latino can be of any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

Enrollment

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Enrollment by Race/Ethnicity Compared to State, 2018-2019



Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Enrollment 2018-2019

Elementary & Middle Schools	# of Students	High Schools	# of Students
Belmont Street Community	609	Burncoat Senior High	1,081
Burncoat Middle School	685	Claremont Academy	546
Burncoat Street	309	Doherty Memorial High	1,529
Canterbury	365	North High	1,279
Chandler Elementary Community	507	South High Community	1,397
Chandler Magnet	471	University Park Campus School	240
City View	473	Worcester Technical High	1,426
Clark Street Community	274	Total Number of Students in WPS	25,415
Columbus Park	465		
Elm Park Community	456		
Flagg Street	388		
Forest Grove Middle	976		
Francis J. McGrath Elementary	245		
Gates Lane	533		
Goddard School/Science Technical	407		
Grafton Street	402		
Head Start	551		
Heard Street	285		
Jacob Hiatt Magnet	410		
Lake View	329		
Lincoln Street	255		
May Street	332		
Midland Street	230		
Nelson Place	549		
Norrback Avenue	579		
Quinsigamond	745		
Rice Square	476		
Roosevelt	688		
Sullivan Middle	902		
Tatnuck	410		
Thorndyke Road	372		
Union Hill	415		
Vernon Hill	517		
Wawecus Road	144		
West Tatnuck	371		
Woodland Academy	600		
Worcester Arts Magnet School	406		
Worcester East Middle	766		

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester: Private Schools, 2018
Alhuda Academy (Pre-K-8)
Bancroft School (Pre-K-12)
Holy Name Junior/Senior High School (7-12)
Nativity School of Worcester (5-8)
Notre Dame Academy (7-12)
Our Lady of the Angels School (Pre-K-8)
Saint Mary's Schools of Worcester (Pre-K-12)
Saint Peter Central Catholic School (Pre-K-8)
Saint Peter Marian Junior-Senior High School (7-12)
Saint Stephen School (Pre-K-8)
TEC– Think, Explore, Create (K-6)
Venerini Academy Elementary School (Pre-K-8)
Worcester Academy (6-12+)
Worcester Seventh Day Adventist School (1-8)

Worcester: Charter Schools, 2018
Abby Kelley Foster Charter Public School (K-12)
Seven Hills Charter Public School (K-8)

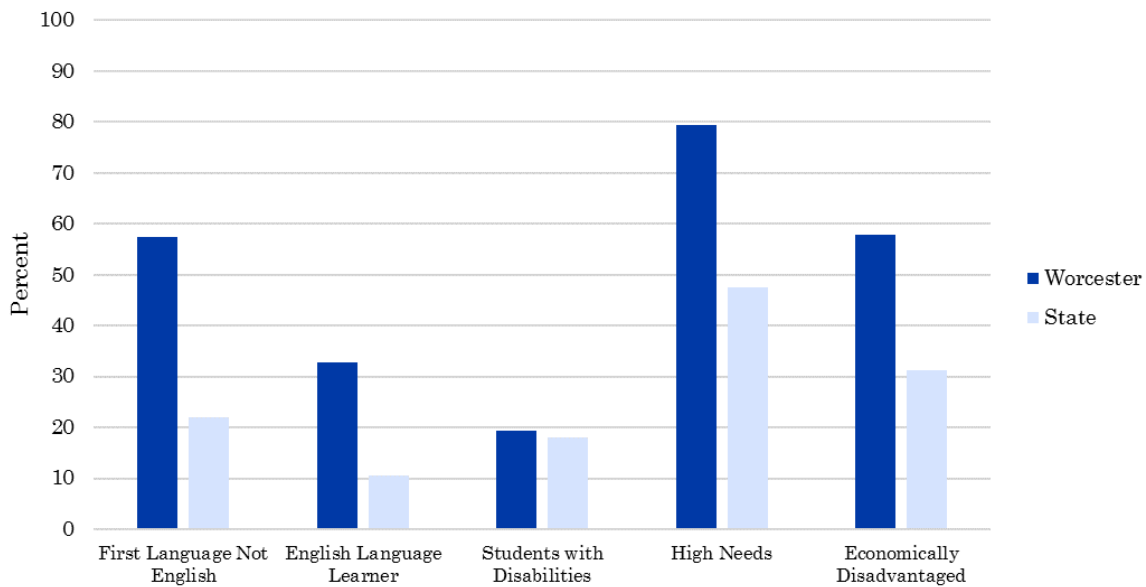
Worcester: Independent Public Schools, 2018
Massachusetts Academy of Math and Science (11-12)

Sources: Massachusetts Department of Elementary & Secondary Education and Worcester Regional Research Bureau.

Worcester Public Schools: Indicators, 2017-2018	
Grade 9-12 Drop Out Rate	2.3%
Retention Rate	2.1%
Attendance Rate	94.5%
Average Number of Days Absent	9.2
Percent of Students with Unexcused Absences Greater than 9 Days	34.5%

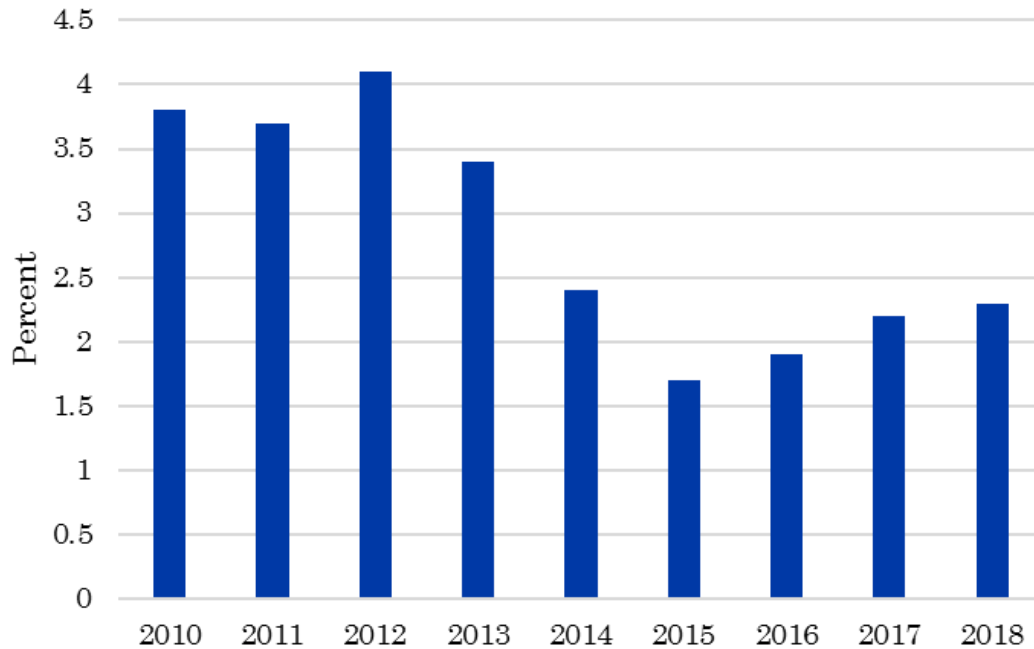
Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Selected Populations, 2018-2019

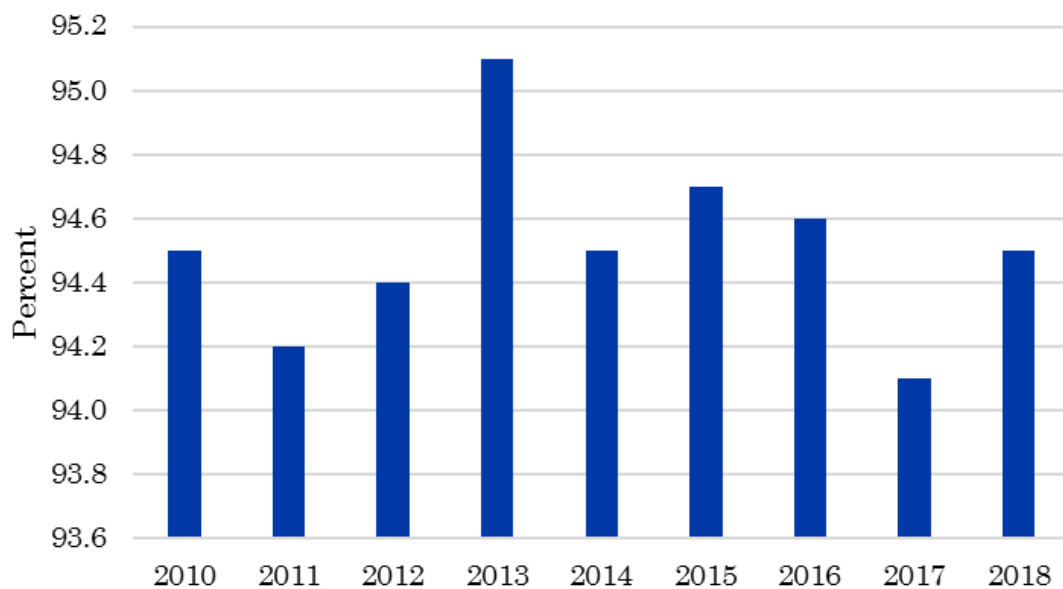


Source: Massachusetts Department of Elementary & Secondary Education.

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, 2010-2018

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Attendance Rates, 2010-2018

Source: Massachusetts Department of Elementary & Secondary Education.

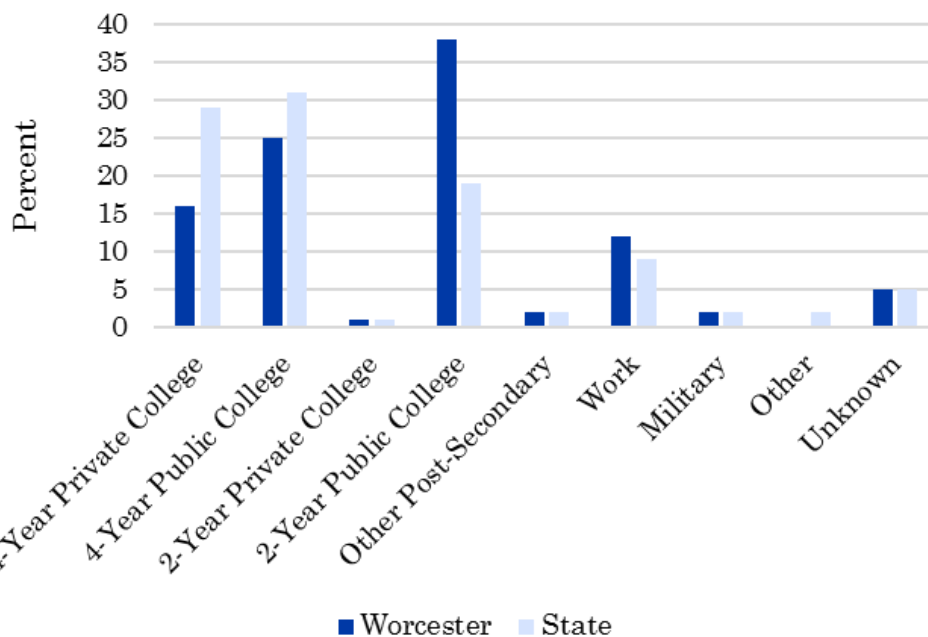
Worcester Public Schools: 4-Year Graduation Rates, Class of 2018*				
	% Graduated**	% Still in School	% H.S. Equiv.	% Dropped Out
All Students	83.5	8.3	1.2	5.2
Male	81.7	9.7	1.7	5.5
Female	85.4	6.9	.7	4.9
ELL	74.4	11.9	.3	10.2
Students with Disabilities	76.5	14.9	.2	6.2
Low income	79.9	10.5	1.4	5.9
High needs	80.3	10.1	1.3	6.3
African American/Black	84.5	10.1	1.3	2.5
Asian	90.6	6.1	.6	2.2
Hispanic/Latino	78.3	9.7	1.6	7.9
American Indian or Alaska Native	-	-	-	-
White	88.2	6.3	.9	3.4
Native Hawaiian or Pacific Islander	-	-	-	-
Multi-race, Non-Hispanic/Latino	81.7	6.7	1.7	8.3

*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: Plans of High School Graduates, 2017-2018

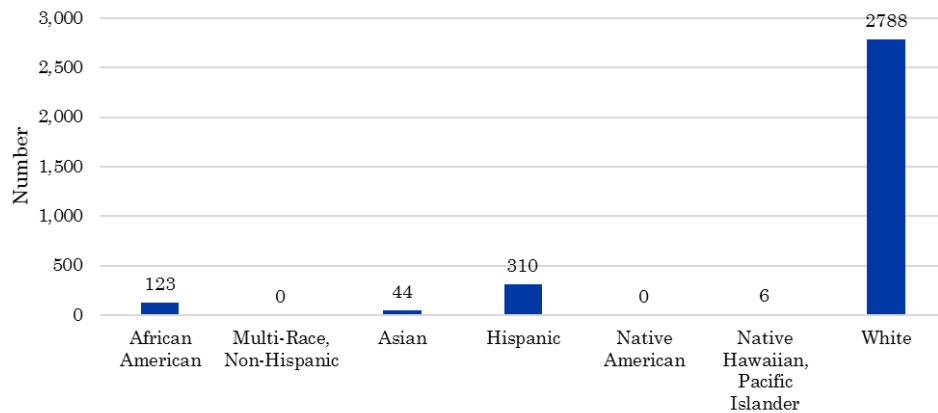


Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Teacher Data, 2017-2018

	Worcester	State
Total Number of Teachers - Full Time Equivalent	1,785	73,420
Student-Teacher Ratio	14.2 to 1	13 to 1
% of Teachers Licensed in Teaching Assignment	97.1	97.2

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Staffing by Race, 2017-2018

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Teacher by Program Area, 2017-2018

	Worcester	State
General Education	1,671	61,534.5
Special Education	0	8,152.6
Career Vocational Technical	76.2	2,022.1
English Language Learner	38	1,710.5
Totals	1,785.2	73,419.7

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Staffing by Gender, 2017-2018

	Worcester	Massachusetts
Males	671	26,806
Females	2,600	105,959

Source: Massachusetts Department of Elementary & Secondary Education.

In 2017, the Massachusetts Department of Elementary and Secondary Education began administering the Next-Generation Massachusetts Comprehensive Assessment System (MCAS) tests. The charts below explain the levels of achievement and compare Worcester student results with those of the rest of the Commonwealth. However, students in grades 5, 8, and 10 took the previous version of the science, technology, and engineering tests (using the previous achievement levels of advanced, proficient, needs improvement, and warning/failing) and grade 10 also took the older version of the MCAS test for English and Math.

General Achievement Level Definitions—Next-Generation Tests (Starting 2017)		
Achievement Level	Scaled Score	Definition
Exceeding Expectations	530-560	A student who performed at this level exceeded grade-level expectations by demonstrating mastery of the subject matter.
Meeting Expectations	500-529	A student who performed at this level met grade-level expectations and is academically on track to succeed in the current grade in this subject.
Partially Meeting Expectations	470-499	A student who performed at this level partially met grade-level expectations in this subject. The school, in consultation with the student's parent/guardian, should consider whether the student needs additional academic assistance to succeed in this subject.
Not Meeting Expectations	440-469	A student who performed at this level did not meet grade-level expectations in this subject. The school, in consultation with the student's parent/guardian, should determine the coordinated academic assistance and/or additional instruction the student needs to succeed in this subject.

Worcester Public Schools: Next-Generation MCAS Test Results by Percent, Spring 2018								
Grade and Subject	Exceeding Expectations		Meeting Expectations		Partially Meeting Expectations		Not Meeting Expectations	
	WPS	MA	WPS	MA	WPS	MA	WPS	MA
GRADE 03 - Reading	4	9	32	43	51	41	13	7
GRADE 03 - Mathematics	4	10	29	40	46	38	22	12
GRADE 04 - ENG. Language Arts	5	10	33	43	43	38	19	9
GRADE 04 - Mathematics	3	7	29	41	43	39	25	13
GRADE 05 - ENG. Language Arts	4	6	34	48	48	38	14	8
GRADE 05 - Mathematics	2	5	27	41	51	44	19	10
GRADE 06 - ENG. Language Arts	7	10	32	40	43	37	19	12
GRADE 06 - Mathematics	4	7	28	41	48	42	20	11
GRADE 07 - ENG. Language Arts	4	8	23	38	41	39	31	15
GRADE 07 - Mathematics	2	7	20	39	49	40	29	14
GRADE 08 - ENG. Language Arts	4	10	29	41	38	34	29	15
GRADE 08 - Mathematics	2	8	21	41	50	38	27	12

Source: Massachusetts Department of Elementary and Secondary Education.

General Achievement Level Definitions - Legacy MCAS Tests

ADVANCED Students at this level demonstrate a comprehensive and in-depth understanding of rigorous subject matter, and provide sophisticated solutions to complex problems.

PROFICIENT Students at this level demonstrate a solid understanding of challenging subject matter and solve a wide variety of problems.

NEEDS IMPROVEMENT Students at this level demonstrate a partial understanding of subject matter and solve some simple problems.

WARNING (Grades 3-8)/FAILING (High School) Students at this level demonstrate a minimal understanding of subject matter and do not solve simple problems.

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Legacy MCAS Test Results by Percent, Spring 2018

	Advanced		Proficient		Needs Improvement		Warning/ Failing	
	WPS	MA	WPS	MA	WPS	MA	WPS	MA
GRADE 05 - Science & Tech/Engineering	10	18	23	30	45	39	22	13
GRADE 08 - Science & Tech/Engineering	1	4	16	31	43	44	40	21
GRADE 10 - ENG. Language Arts	34	51	47	40	13	6	6	3
GRADE 10 - Mathematics	32	51	27	27	25	14	16	8
GRADE 10 - Science & Tech/Engineering	16	32	39	43	36	21	9	5

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: SAT Performance Report, 2017-2018 Results

	Number Test Takers	Average Reading Score	Average Math Score
All Students	1,891	478	481
English Learner	267	391	388
Economic Disadvantage	976	455	457
Special Education	190	392	385
High Needs	1,197	449	451
Female	1,022	480	476
Male	869	475	488
Amer. Ind. or Alaska Nat.	5	*	*
Asian	227	501	531
Black or Afr. Amer.	395	461	457
Hispanic	621	443	444
Multi-race, Non-Hispanic	65	494	488
White	578	514	518

*Results not reported for populations less than 10.

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester: Educational Attainment, 2017		
Population 25 Years and Over	120,286	
Less than 9th Grade	7,283	6.5%
9th to 12th Grade, No Diploma	11,090	9.21%
High School Graduate, Includes Equivalency	35,925	29.8%
Some College, No Degree	20,225	16.8%
Associate's Degree	9,717	8%
Bachelor's Degree	22,101	18.3%
Graduate or Professional Degree	13,945	11.5%

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

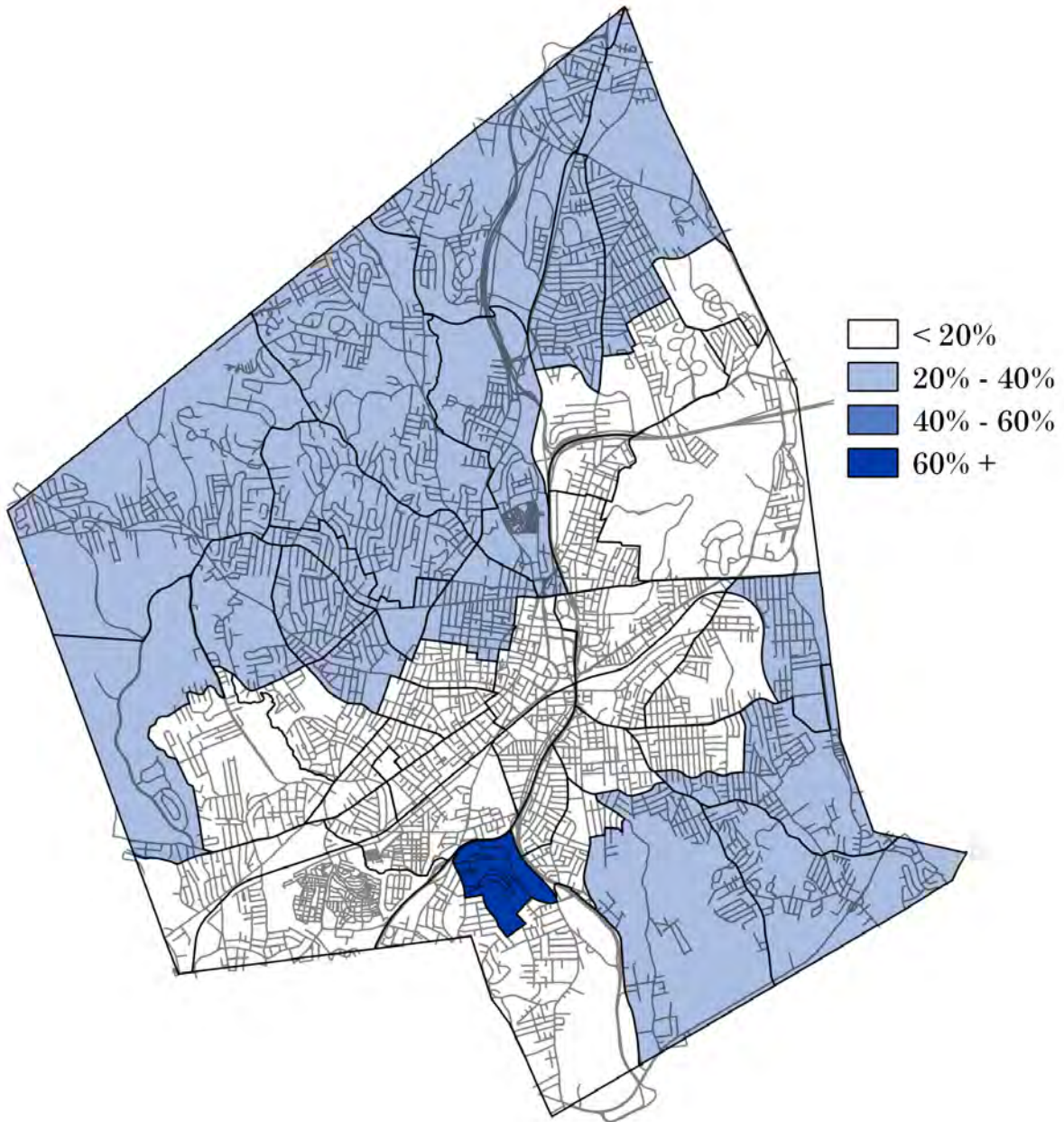
Greater Worcester: % Population 25 and Over with Bachelor's Degree or Higher, 2017	
Auburn	38.2%
Boylston	56.3%
Grafton	50.7%
Holden	53.7%
Leicester	28.4%
Millbury	31.3%
Paxton	54.5%
Shrewsbury	68.4%
West Boylston	30.3%
Worcester	36.6%

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Greater Worcester: Colleges & Universities, 2019
Anna Maria College (Paxton)
Assumption College (Worcester)
Becker College (Worcester & Leicester)
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: Percent of Residents 25 Years of Age and Older with Bachelor's Degree



Educational Attainment

Source: U.S. Census Bureau, 2017 5-Year American Community Survey



Public Safety

Worcester: Crime Statistics, 2018	
Incidents	145,017
Disorderly Conduct	20,212
Traffic Accidents	9,371
Arrests	5,358
Noise Disturbances	4,574
Vandalism	1,368
Breaking & Entering	943
Larceny from Motor Vehicle	935
Motor Vehicle Theft	403
Aggravated Non-Domestic Assault	394
Robberies	291
Aggravated Domestic Assault	250
Stabbings/Slashings	124
Shooting Victims	20
Shootings	19
Murder	5

Source: Worcester Police Department.

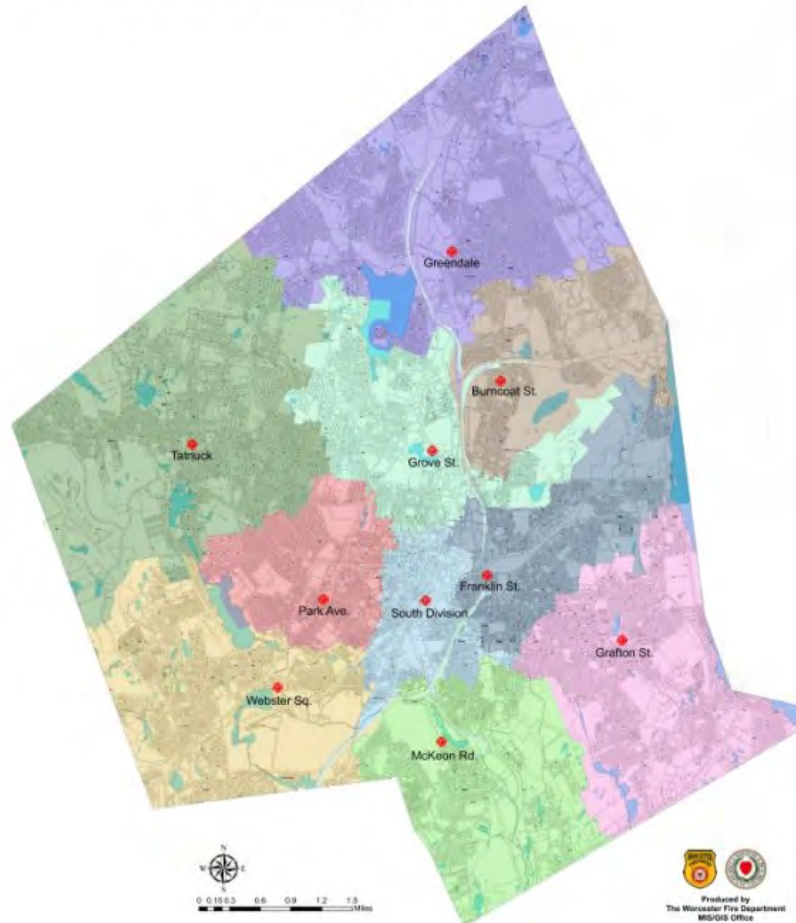
Worcester: Fire Department Activity, 2018	
Total Calls	33,483
<i>Building Fires</i>	139
<i>All Fires Within a Building</i>	968
<i>Emergency Medical Calls</i>	22,091
<i>False Alarms</i>	3,627
Number of Companies	21
<i>Engines</i>	13
<i>Ladders</i>	7
<i>Rescue</i>	1
<i>Boats</i>	2
<i>Scuba Truck</i>	1

Source: Worcester Fire Department.

Worcester: Fire Stations, 2018	
Station	Address
Grove Street - Headquarters	141 Grove Street
Southeast Station	745 Grafton Street
South Division	180 Southbridge Street
Burncoat Street	19 Burncoat Street
Park Avenue	424 Park Avenue
Tatnuck Square	1067 Pleasant Street
Webster Square	40 Webster Street
Greendale	438 Boylston Street
Franklin Street	266 Franklin Street
McKeon Road	80 McKeon Road

Source: Worcester Fire Department.

Chart 12: WFD Station and Firefighter Distribution



Worcester: Staffing for Police & Fire, FY19 Budget	
FIRE	Number
Fire Chief	1
Deputy Fire Chief	2
District Fire Chief	12
Captain	24
Lieutenant	70
Firefighter	303
Recruits	17
Other	12
Total	441
POLICE	Number
Chief of Police	1
Deputy Police Chief	4
Police Captain	8
Police Lieutenant	23
Police Sergeant	55
Police Officers	360
Recruits	40
Other	57
Total	548

Source: City of Worcester.

Worcester: Firearm Licenses Issued, 2018	
Firearm Identification Cards (FIDs)	58
Licenses to Carry (LTCs)	1,341

Source: Worcester Police Department.

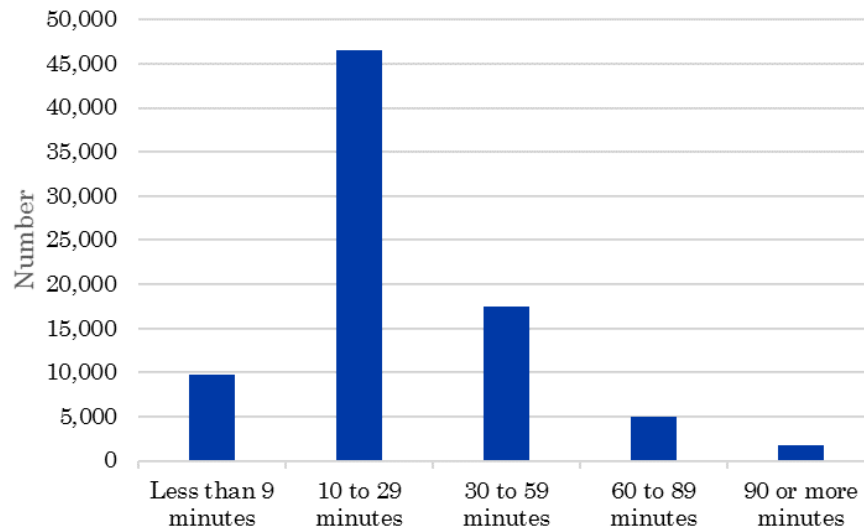
Worcester: Municipal Licenses, January 2019	
Second-Hand Motor Vehicle Licenses	256
Second-Hand Article Licenses & Pawn Brokers	60
Common Victualer Background Checks	59
Hawkers and Peddlers Licenses	40
Solicit and Canvas	42
Fortune Tellers Licenses	1
Ice Cream Vendor Permits	15

Source: Worcester Police Department.



Transportation & Infrastructure

Worcester: Commute Times, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Work Commute Patterns (Workers 16 Years and Older), 2017

	Number Worcester	Percent Worcester	Number MA	Percent MA Residents
Car, Truck, or Van—Drove Alone	61,372	72.8%	2,440,463	70.7%
Car, Truck, or Van—Carpooled	9,308	11%	258,167	7.5%
Public Transportation (Excluding Taxicab)	2,776	3.3%	352,153	10.2%
Walked	5,171	6.1%	167,203	4.8%
Other Means (Taxicab, motorcycle, bicycle, or other means)	1,960	2.3%	67,806	2.0%
Worked at Home	3,716	4.4%	168,255	4.9%
Total	84,303	100%	3,454,047	100%

Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Taxi and Livery Service, January 2019

Taxi Medallions	110
Taxi Drivers	269
Registered Livery Vehicles	182
Livery Drivers	250

Source: Worcester Police Department.

Worcester: Street Infrastructure, 2018	
Streets (Miles)	
<i>Public Streets (Miles)</i>	437
<i>Private Streets (Miles)</i>	80
Sidewalks (Miles)	
<i>Asphalt (Miles)</i>	306
<i>Concrete (Miles)</i>	183
Street Lights	
<i>Electric</i>	13,666
<i>Gas</i>	28
Traffic Signals (City-owned)	171 Traffic Signals 37 Flashers
Parking Meters—On-Street	<i>Approximately 1,160</i>
Electric Car Charging Stations*	9

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

*ChargeHub

Worcester: Yard Waste, 2018	
Yard Waste	
<i>Fall Collection</i>	42,000 cubic yards
<i>Drop-off Locations</i>	20,000 cubic yards

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

Worcester: Water and Sewer Infrastructure, 2018	
Miles of Water Main Pipe	592
Reservoirs	10
Dams	30
Stormwater Discharge Outfalls	349
Public Fire Hydrants	5,940
Total Miles of Sewer Pipes	
<i>Sanitary Sewers</i>	399
<i>Surface Sewers</i>	372
<i>Combined Sewers</i>	61
Number of Manholes	<i>Approximately 28,300</i>
Number of Catch Basins	<i>Approximately 15,200</i>

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

Worcester Municipal Parking Garages Capacity, 2018	
Pearl Elm	819
Federal Plaza	511
Major Taylor Boulevard	983
Union Station	500
Worcester Common	500
Surface lots (13 lots)	<i>Approximately 980</i>

Source: City of Worcester Comprehensive Annual Financial Report, June 30, 2018



Arts, Culture, & Sports

Worcester Cultural Coalition—In 2018, the Worcester Cultural Coalition consisted of the City of Worcester and over 70 cultural organizations in Greater Worcester.

- African Arts Education/Crocodile River Music
- All Saints Choirs
- American Antiquarian Society
- American Guild of Organists—Worcester
- Apple Tree Arts
- Art in the Park, Worcester
- Artist Group at the Sprinkler Factory
- Arts Transcending Borders
- ArtsWorcester
- Assumption College—HumanArts
- Audio Journal
- Calliope Productions
- Canal District Alliance, Inc.
- Centro Inc.
- Clark Arts
- Crocodile River Music
- EcoTarium
- First Congregational Church
- Gallery at Worcester State University
- International Center of Worcester
- Iris and B. Gerald Cantor Art Gallery at the College of the Holy Cross
- Joy of Music Program
- Main Idea
- Mass Audubon Broad Meadow Brook
- Mass DIGI
- Massachusetts Symphony Orchestra
- Master Singers of Worcester
- Mechanics Hall
- Museum of Russian Icons
- Music at Trinity Lutheran Church
- Music Worcester
- New England Symphony
- Old Sturbridge Village
- Pakachoag Music School of Greater Worcester
- Preservation Worcester
- Regional Environmental Council
- Salisbury Mansion
- Salisbury Singers, Inc.
- St. Mary’s Assumption Assyrian Church
- St. Spyridon Cathedral Arts & Culture
- Southeast Asian Coalition Central MA
- stART on the Street
- The Hanover Theatre for the Performing Arts
- Tower Hill Botanic Garden
- Tuckerman Hall
- ValleyCAST
- VSA Massachusetts
- WCCA TV 13
- WCUW Public Radio
- WICN Public Radio
- Worcester Art Council
- Worcester Art Museum
- Worcester Center for Crafts
- Worcester Center for the Performing Arts
- Worcester Chamber Music Society
- Worcester Children’s Chorus
- Worcester County Light Opera Club
- Worcester County Poetry Association
- Worcester Historical Museum
- Worcester Inter-Tribal Indian Center
- Worcester Jewish Community Center
- Worcester Music Academy
- Worcester Polytechnic Institute Humanities and Arts
- Worcester Public Library
- Worcester Shakespeare Company
- Worcester Shubertiad
- Worcester State University Visual and Performing Arts
- Worcester Women’s History Project
- Worcester Youth Symphony

Source: Worcester Cultural Coalition.

Worcester: Bravehearts Baseball, 2018			
Wins	Losses	Percentage	Awards
36	17	.679	Co-Champions with Martha's Vineyard Sharks.
Attendance			
The Bravehearts ranked sixth in the Nation in the Summer Collegiate League for both attendance per game and total attendance for the Season.			

Source: Worcester Bravehearts.

Greater Worcester: College League Athletic Achievements, 2018
Nichols College Men's Basketball: 2018-2019 Commonwealth Coast Conference (CCC) Champions. NCAA Division 3 Elite 8
Worcester State University Women's Volleyball: Conference Champions
Worcester Polytechnic Institute: 2018 Women's Crew Team 3rd Place NCAA Championship

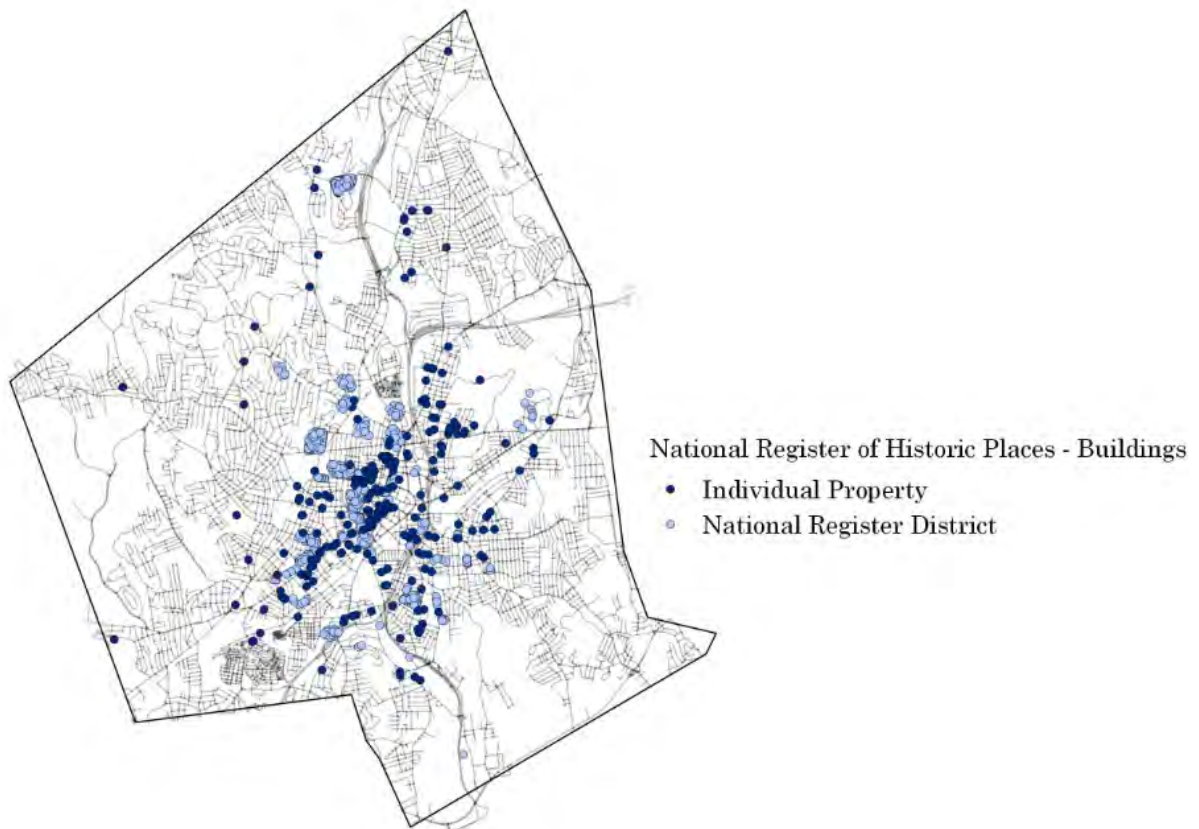
Greater Worcester: 2018 High School Sports Highlights
Shrewsbury Boy's Hockey: D-3 State Championship
Wachusett Girl's Soccer: D-1 State Championship
Auburn Baseball: D-3 District Title
Grafton Boy's Lacrosse: D-3 Central/West District Title
Leicester Softball: D-2 District Title
St. John's Football: D-3 District Title
St. Peter-Marian Baseball: D-1 District Title
Wachusett Baseball: Super Eight Tournament
Wachusett Boy's soccer: D-1 Central Mass Title
Wachusett Girl's Basketball: D-1 District Title
Wachusett Softball: D-1 District Title

Greater Worcester: Other Notable Sport Achievements and Milestones, 2018
The City of Worcester, the Boston Red Sox Triple-A affiliate, and the Commonwealth of Massachusetts announced that the Pawtucket Red Sox will relocate to Worcester in 2021 to a new publicly owned baseball stadium known as Polar Park.
The City of Worcester will contribute \$101 million in order to build the stadium. Of this new debt, \$30 million will be paid by the team through annual rent payments and \$71 million will be paid by anticipated new revenue streams from the development of a mixed-use project, which includes the development of two hotels, market-rate apartments, and retail space during phase 1. Phase 2 could include additional office, residential, and retail space.
The Commonwealth of Massachusetts is also providing \$32.5 million for infrastructure, most notably a public parking garage, in addition to the reconstruction of Kelley Square. The State is also offering \$2.5 million in tax credits for the residential component.

Source for information on this page: Channel 3, Worcester Telegram & Gazette, local high schools and colleges..

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, 2017

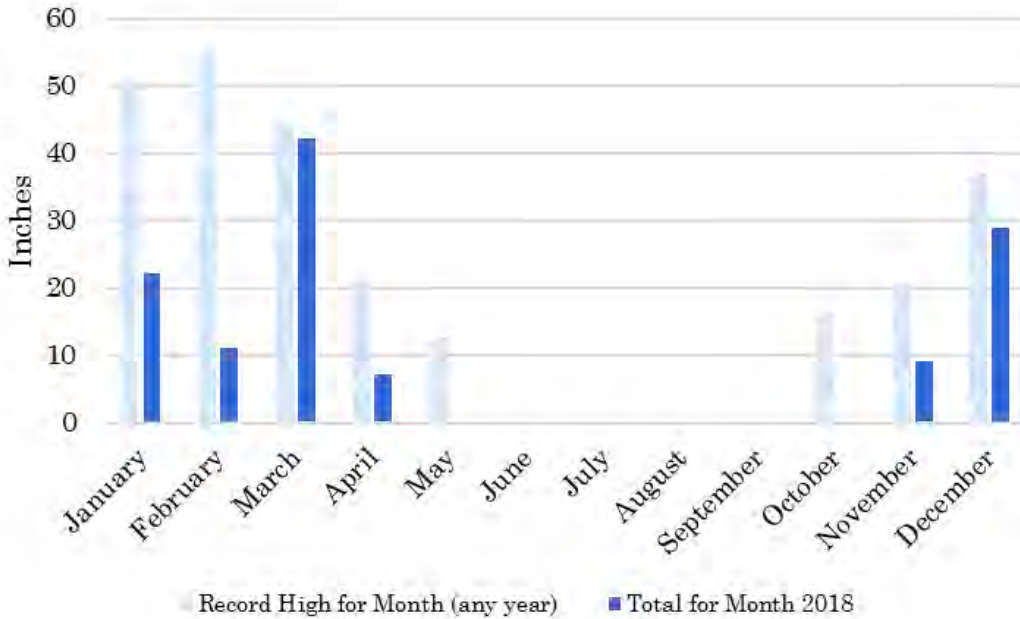


Source: Massachusetts Cultural Resource Information System.



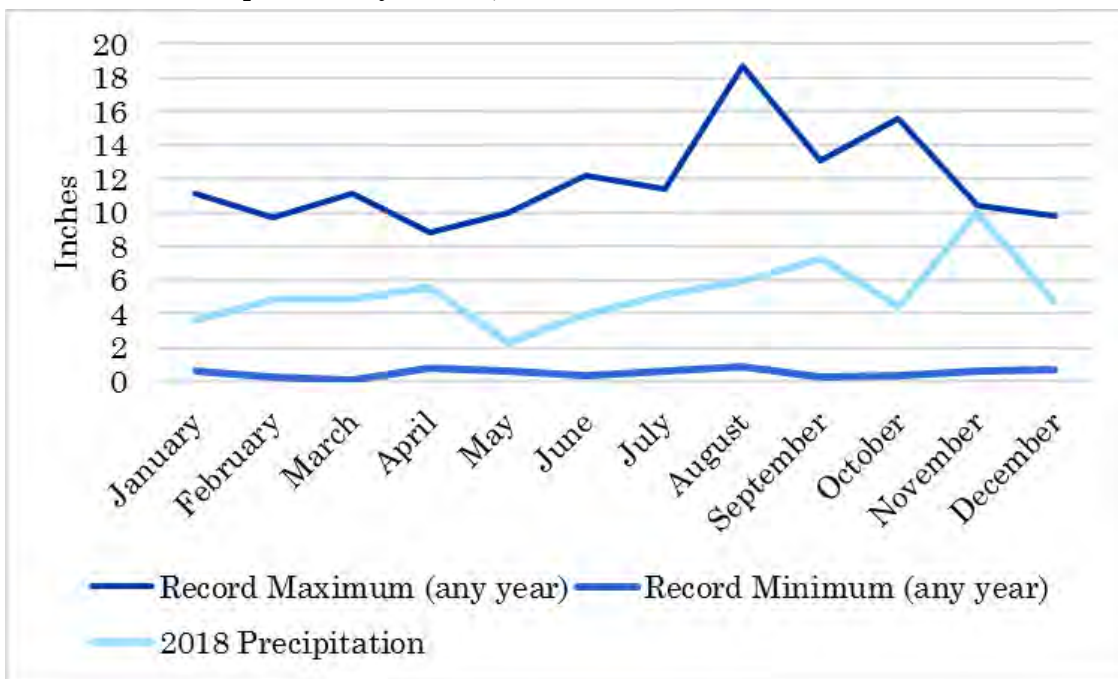
Weather, Geography, & Environment

Worcester: Snowfall & Record High by Month, 2018



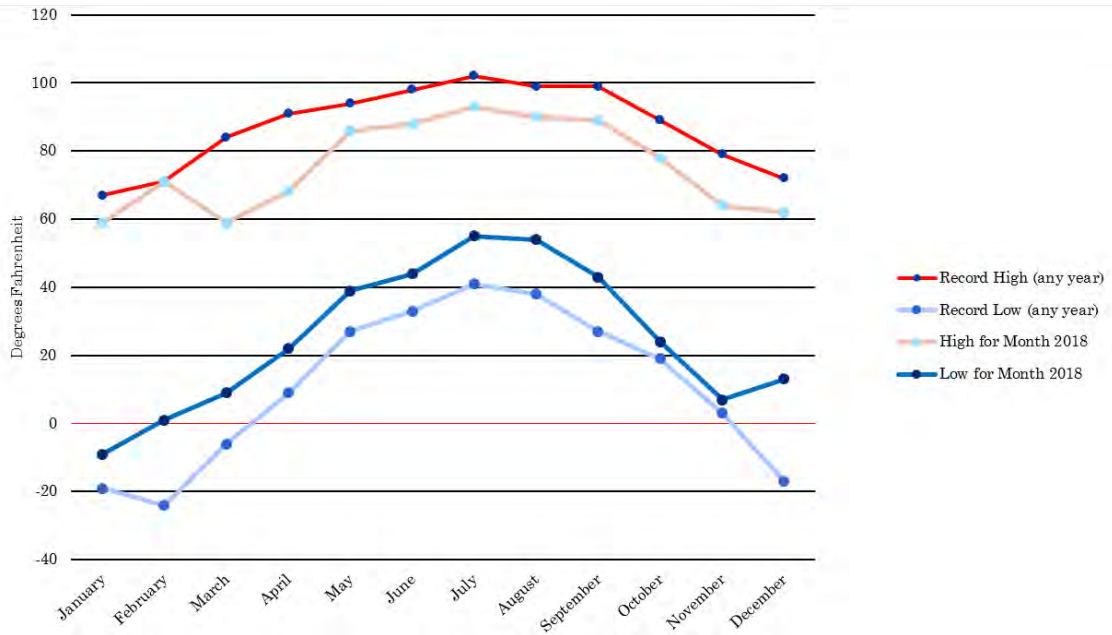
Source: National Oceanic & Atmospheric Administration.

Worcester: Precipitation by Month, 2018



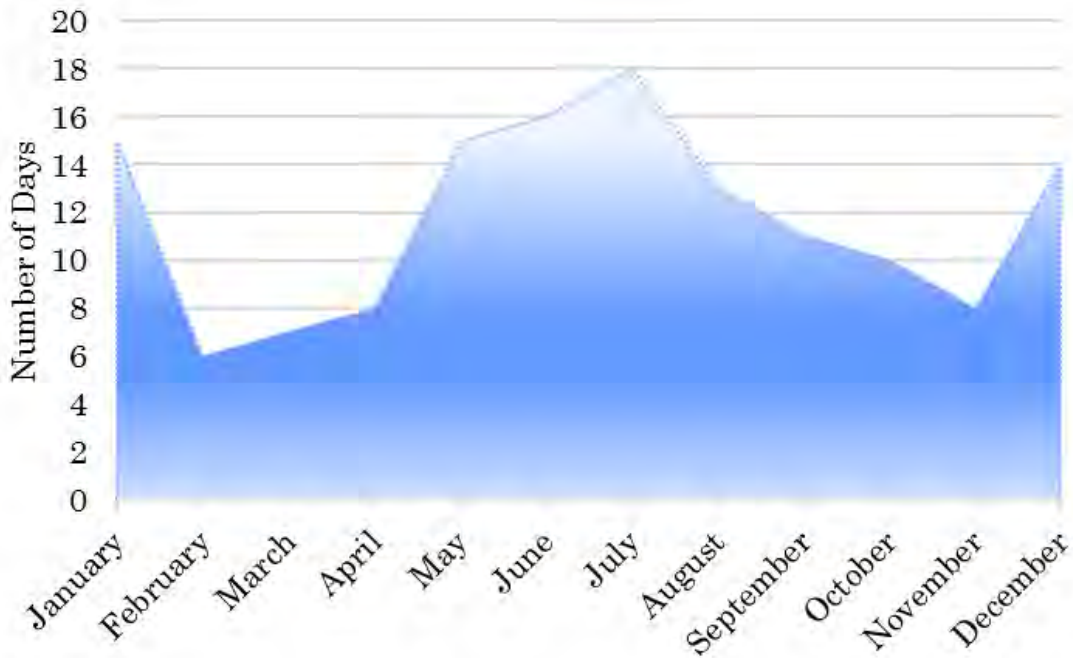
Source: National Oceanic & Atmospheric Administration.

Worcester: Average High and Low Temperatures Compared to Record, 2018



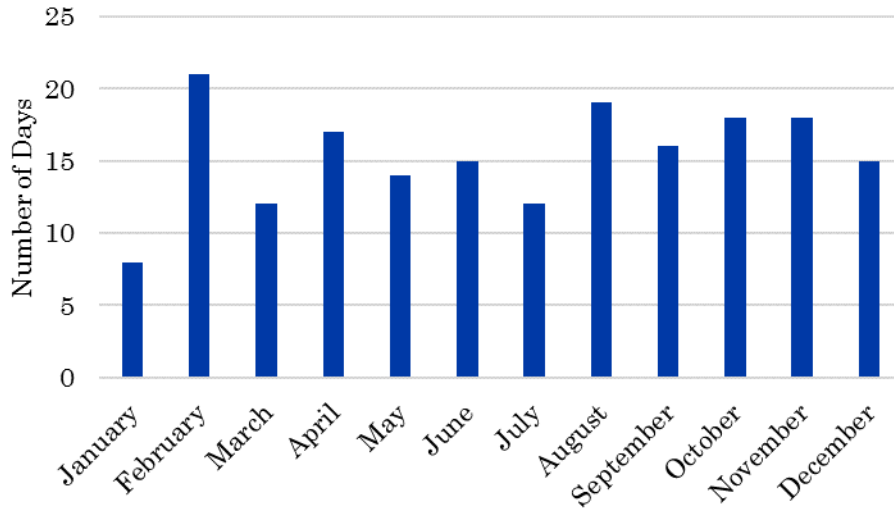
Source: National Oceanic & Atmospheric Administration.

Worcester: Clear Days, 2018



Source: National Oceanic & Atmospheric Administration.

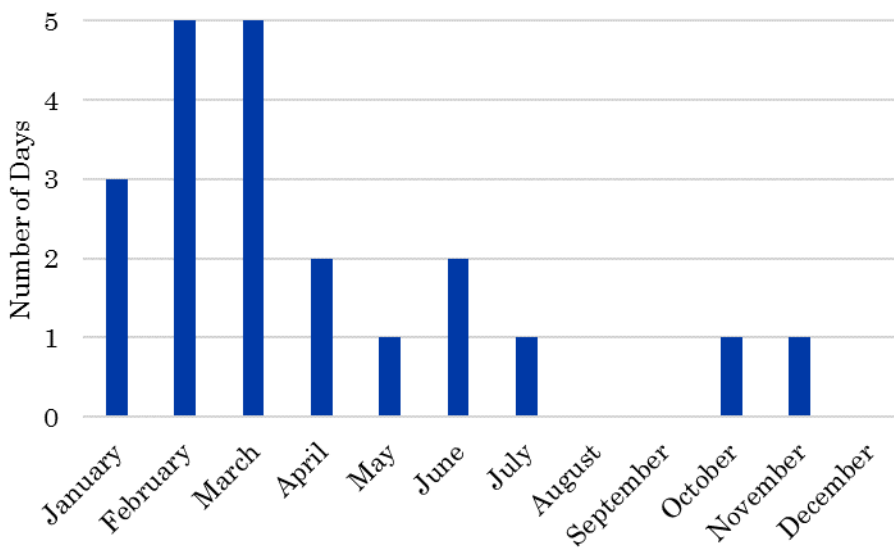
Worcester: Fog, Visibility Less than Quarter Mile, 2018



Source: National Oceanic & Atmospheric Administration.

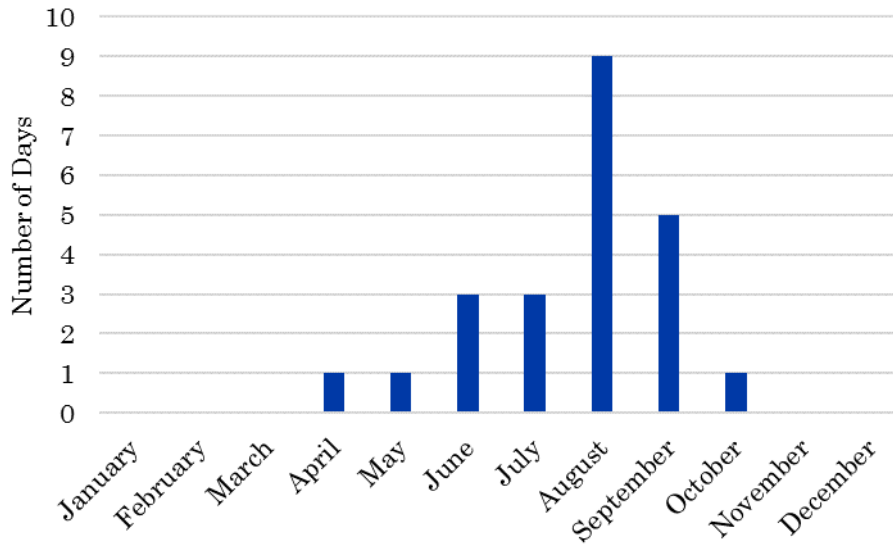
Fog is a dense cloud layer at or near the earth’s surface that restricts visibility, adversely affecting travel. Haze is a reflection of sunlight off fine solid or liquid particles that are dispersed in the air. Haze is a type of air pollution and can adversely affect people’s health, triggering asthma and allergies.

Worcester: Haze, 2018



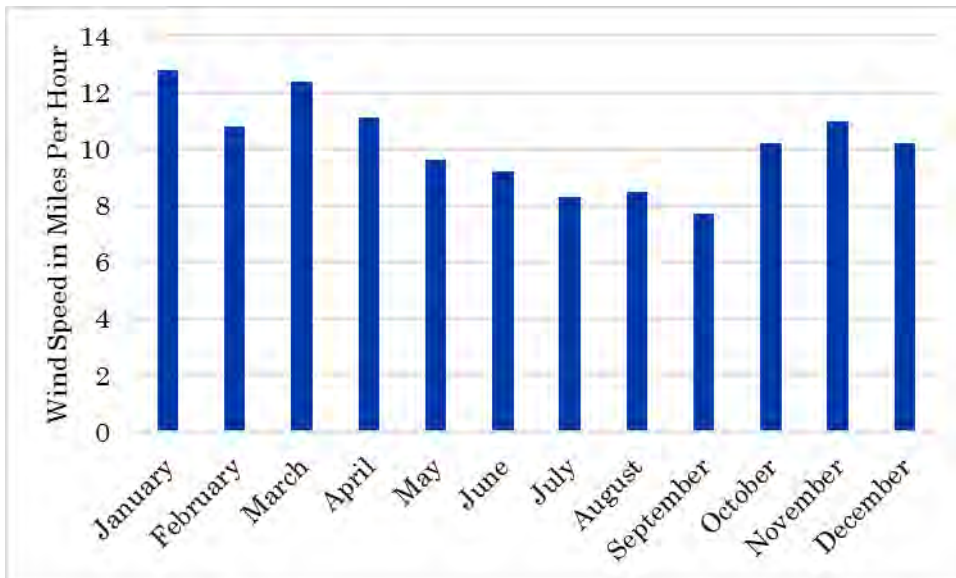
Source: National Oceanic & Atmospheric Administration.

Worcester: Number of Days with Thunderstorms, 2018



Source: National Oceanic & Atmospheric Administration.

Worcester: Average Wind Speed Per Month, 2018



Source: National Oceanic & Atmospheric Administration.

Worcester is located at the headwaters of the Blackstone River and is part of the Blackstone River Watershed—640 square miles of drainage and 1300 acres of lakes, ponds and reservoirs. The watershed extends into Rhode Island and includes the City of Providence.

Worcester: Lakes, Rivers, Ponds, Brooks, and Waterfalls	
<i>Lakes</i>	
	Indian Lake
	Quinsigamond Lake
<i>Rivers</i>	
	Blackstone River
	McKeon River
	Middle River
<i>Ponds</i>	
	Bell Pond
	Burncoat Pond
	Cider Mill Pond
	City Farm Pond
	Coes Pond
	Cook Pond
	Curtis Pond
	Elm Park Pond
	Flint Pond
	Green Hill Pond
	Leesville Pond
	Patch Pond
	Poor Farm Pond
	Salisbury Pond
	Smith Pond
	Williams Mill Pond
<i>Streams and Brooks</i>	
	Beaver Brook
	Broad Meadow Brook
	Coal Mine Brook
	Kettle Brook
	Tatnuck Brook
	Weasel Brook
<i>Waterfalls</i>	
	The Cascade

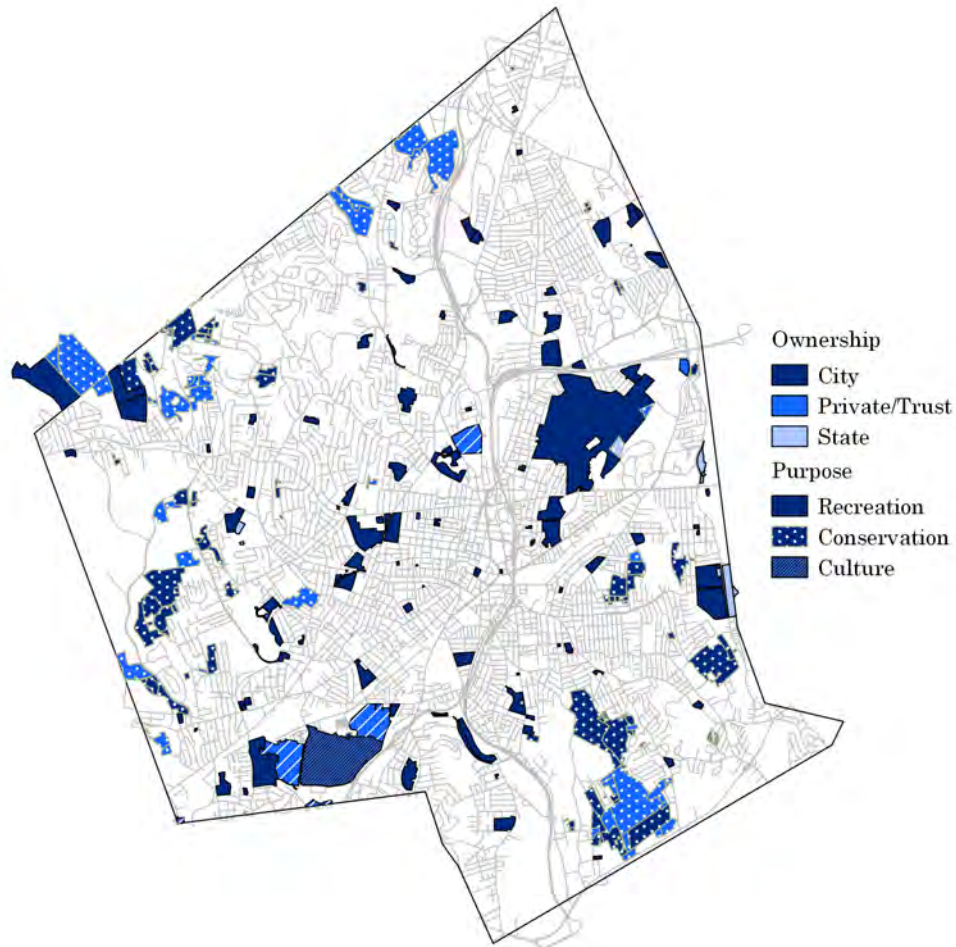
Source: *City of Worcester Open Space and Recreation Plan, 2013.*

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

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.

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

Worcester: Open Space by Ownership and Purpose

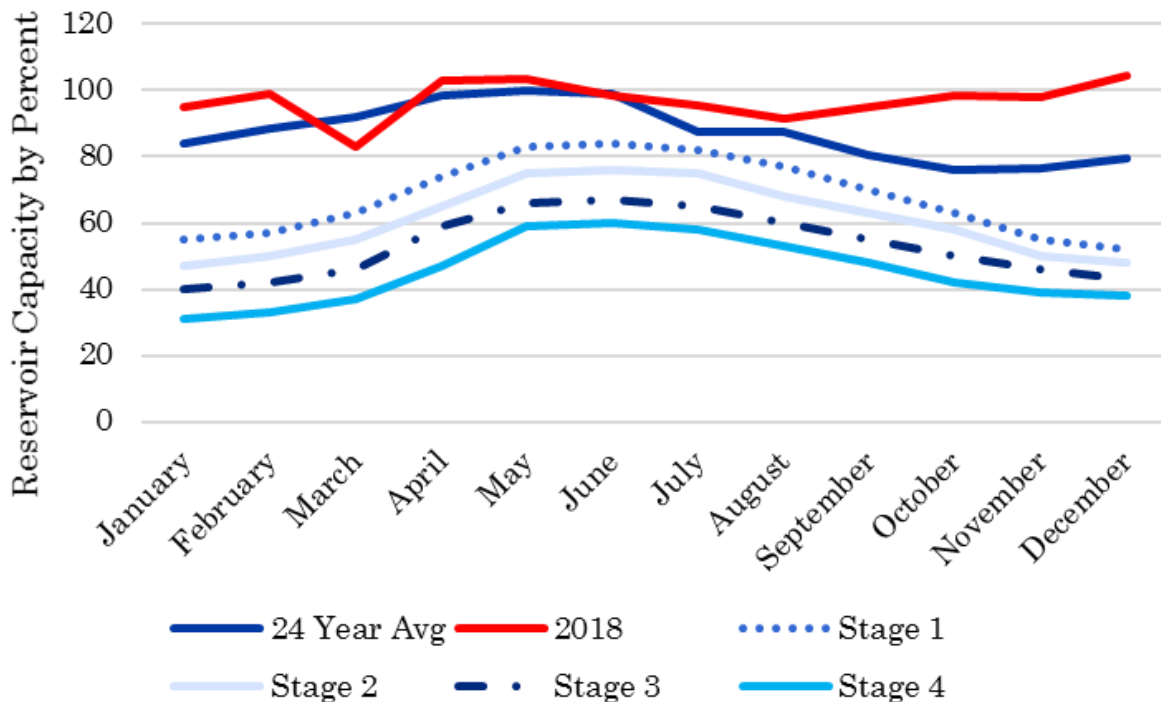


Source: MassGIS.

Worcester: Reservoirs—Acres and Capacity	
Lynde Brook	– 132 acres; 342.75 feet; 717,422,000 gallons
Kettle Brook, No. 1	– 11.50 acres; 364.35 feet; 19,307,000 gallons
Kettle Brook, No. 2	– 30.76 acres; 507.5 feet; 127,310,000 gallons
Kettle Brook, No. 3	– 37.41 acres; 559 feet; 152,306,000 gallons
Kettle Brook, No. 4	– 118.61 acres; 604.73 feet; 513,746,000 gallons
Holden, No. 1	– 130 acres; 269.85 feet; 729,319,000 gallons
Holden, No. 2	– 52.63 acres; 237.80 feet; 257,398,000 gallons
Kendall	– 175 acres; 333 feet; 792,163,000 gallons
Pine Hill	– 345 acres; 429 feet; 2,970,967,000 gallons

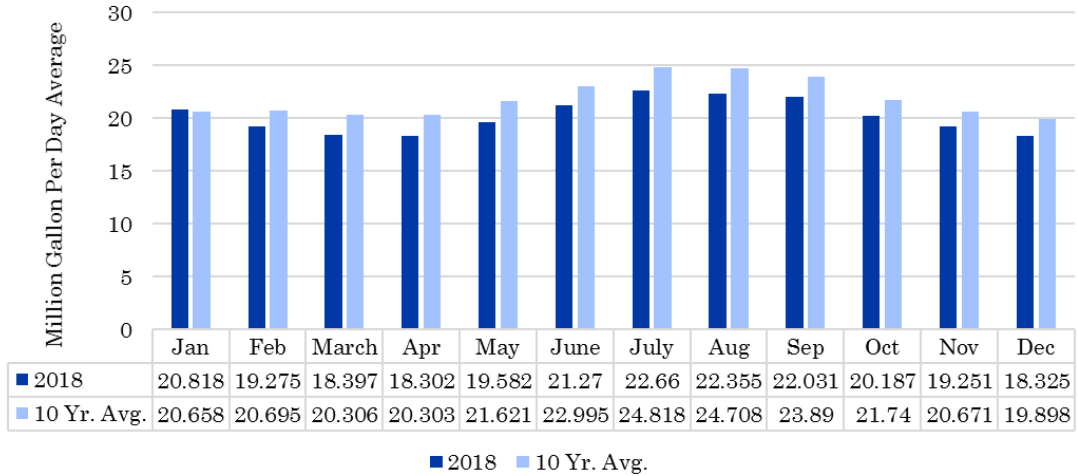
Source: City of Worcester.

Worcester: Reservoir Capacity versus Drought Stages, 2018



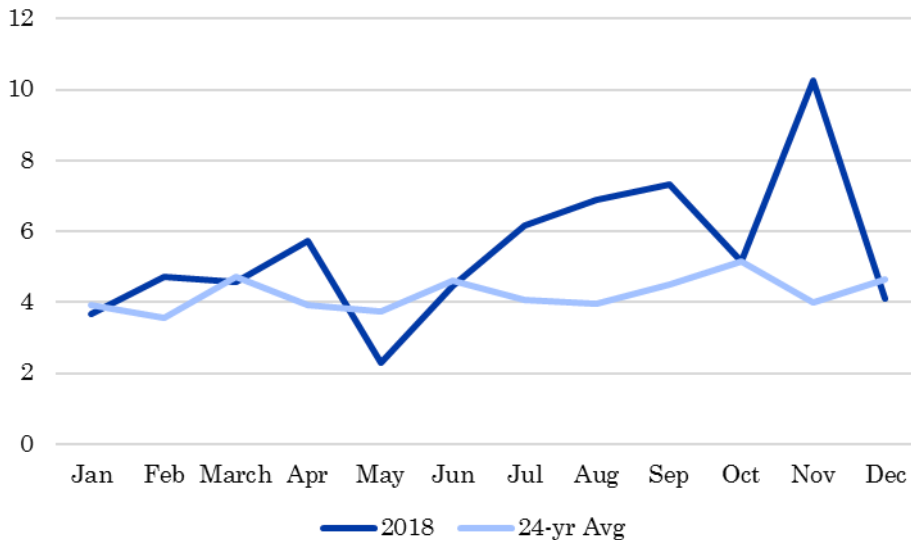
Source: City of Worcester, Department of Public Works and Parks.

Worcester: Monthly Average Waster Consumption versus 10 Year Average, 2018



Source: City of Worcester.

Worcester: Monthly Average Rainfall versus 24 Year Average, 2018



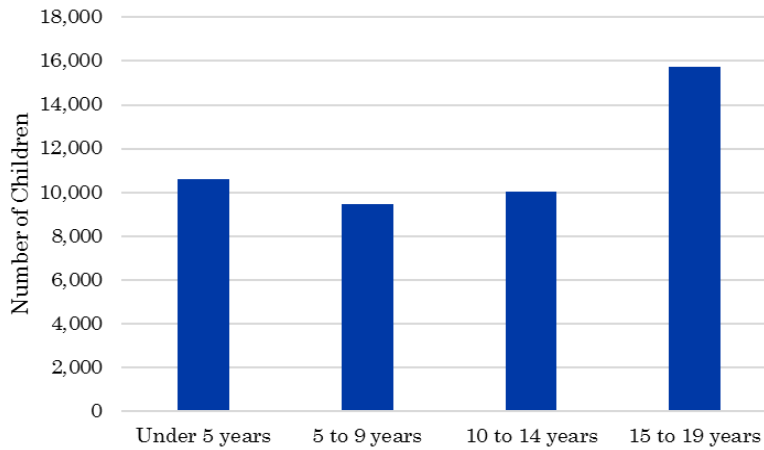
Source: City of Worcester Department of Public Works and Parks.

Appendix

A Focus on Children

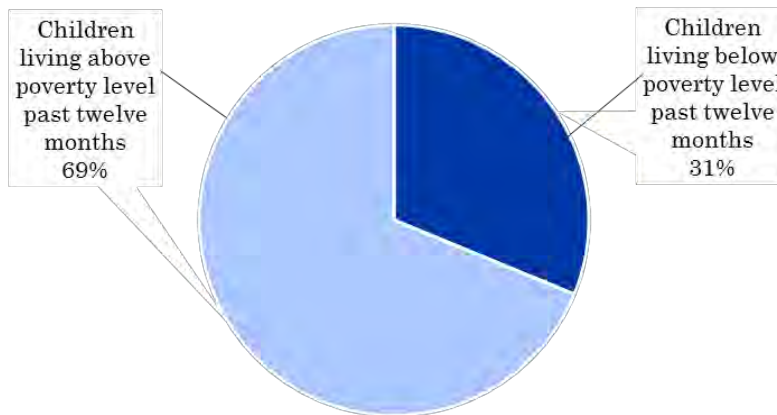
A Focus on Children is an addition to *The Worcester Almanac* derived from conversations with youth-serving organizations as well as the Greater Worcester Community Foundation. The goal of this section is to highlight those factors affecting young people, so that policymakers and practitioners can address 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 by Age, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Poverty Status for Children under 18, 2017

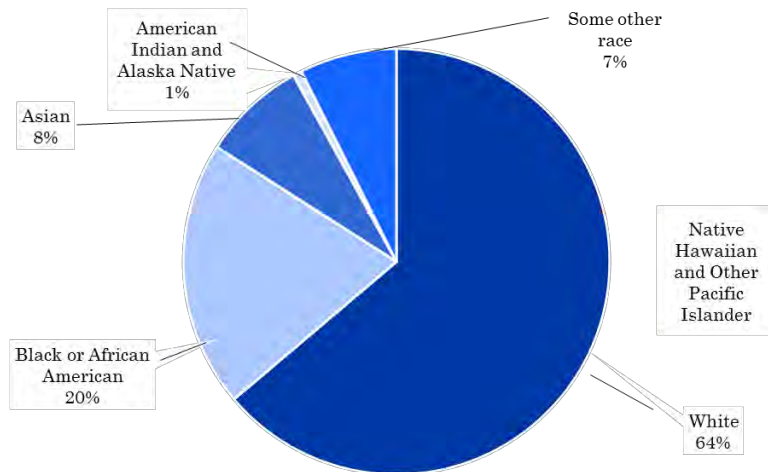


Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Annual City of Worcester Point-In-Time, January 31, 2018					
	Sheltered			Unsheltered	Total
	Emergency Shelter	Transitional Housing	Safe Haven		
Number Homeless Under Age 18	569	100	0	0	669

Source: Central Massachusetts Housing Alliance.

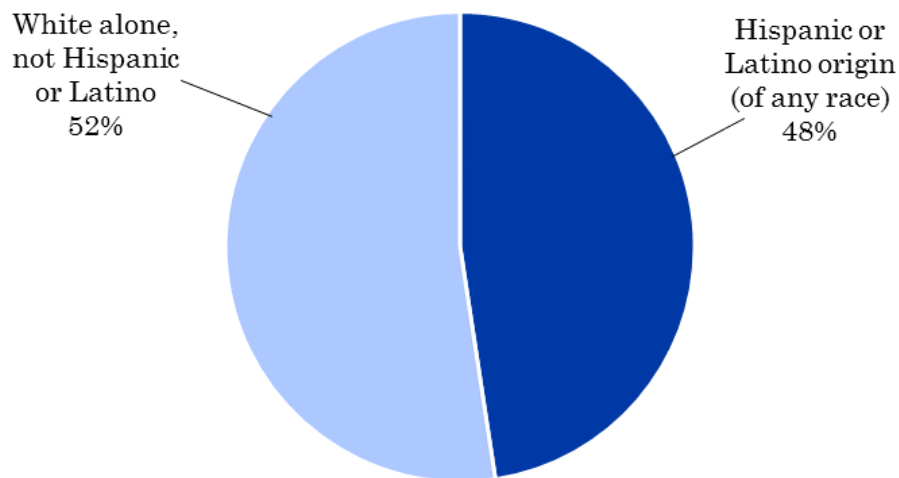
Worcester: Children Under 18 by Race, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

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, 2017

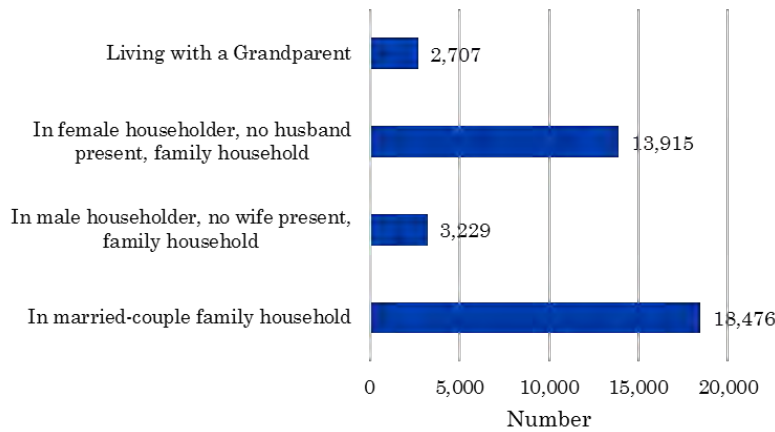


Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Number of Resident Births, 2016*	
Number of Births	2,372
Low Birth Weight**	179
Pre-term	206

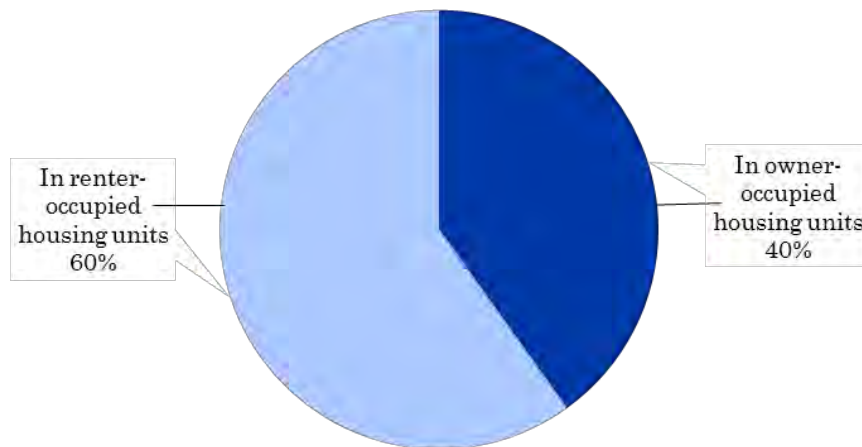
*Birth rates represent the number of births per 1,000 females ages 15-19.
 Source: Greater Worcester Community Health Assessment, 2015,
 Massachusetts Department of Public Health.

Worcester: Children Under 18, Family Situation, 2017



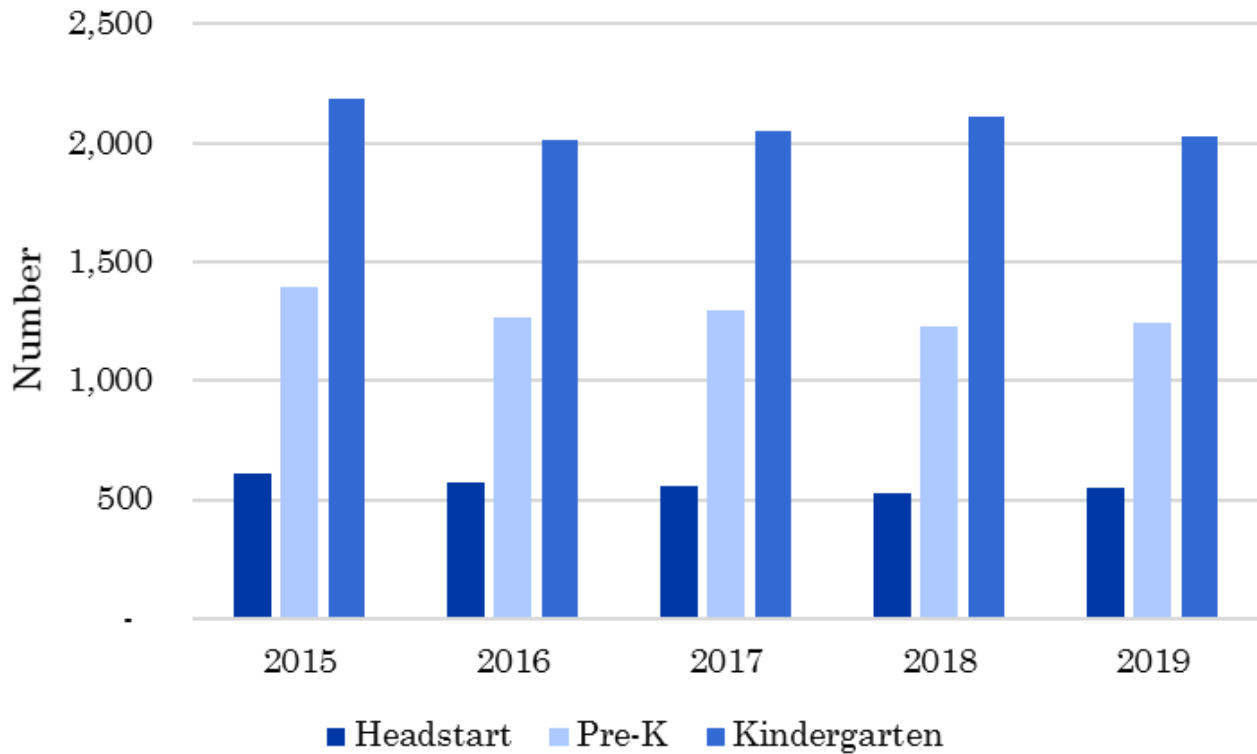
Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

Worcester: Children under 18 Years of Age—Housing, 2017



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

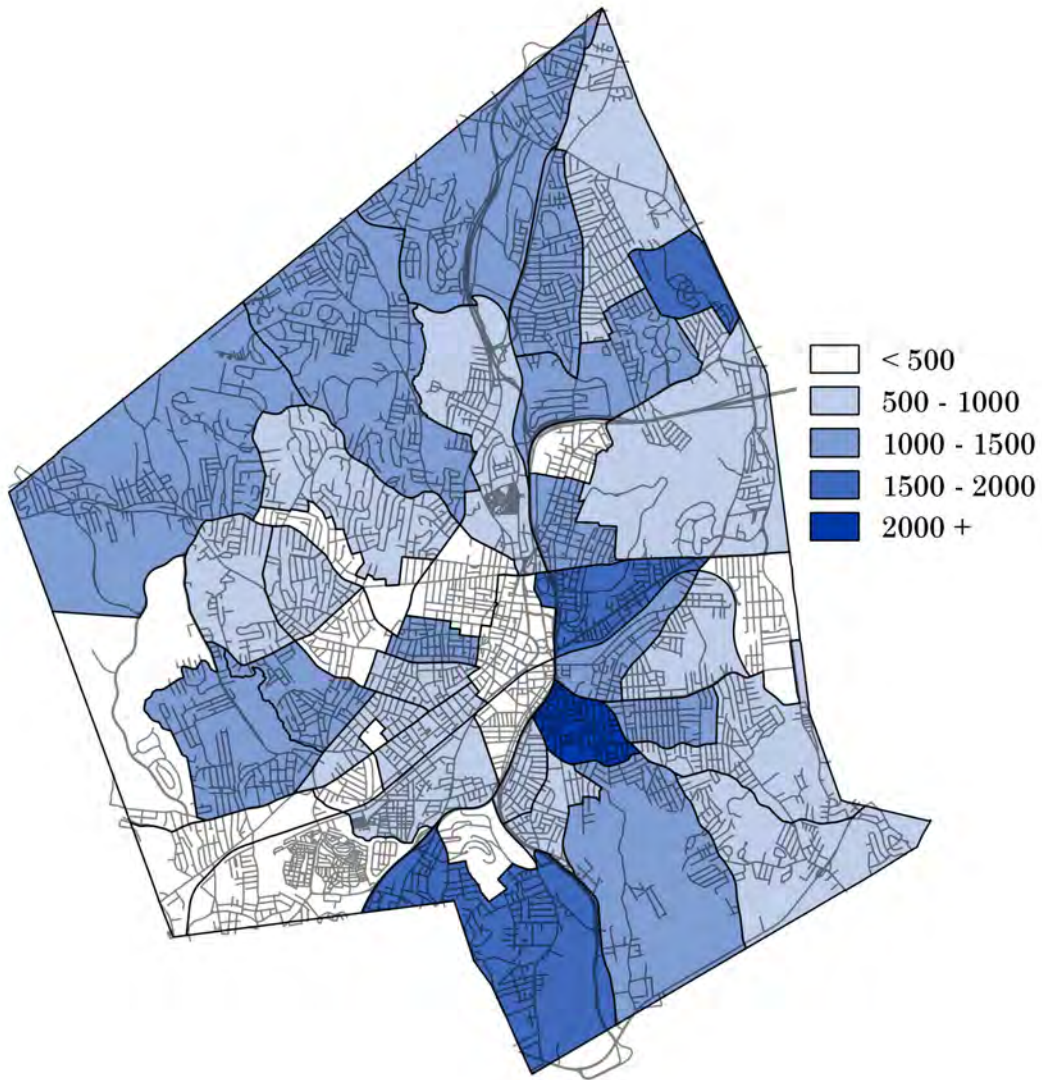
Worcester: Participation in Early Childhood Education, 2014-2018



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: Children under 18 Years of Age by Census Tract



Source: U.S. Census Bureau, 2017 5-Year American Community Survey.

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, 2018					
	Churn/Intake Enroll	Percent Churn	Percent Intake	Stability Enroll	Percent Stability
All Students	27,665	17.1	9.6	25,700	91.4
Economically Disadvantaged	18,031	20.2	11.4	16,540	89.8
High Needs	22,307	19.6	11.1	20,490	90.2
LEP English language learner	10,243	24.9	15.9	9,008	88.6
Students with disabilities	5,541	19.9	10.5	5,131	89.6
<i>Mobility By Race</i>					
African American/Black	4,446	18.0	10.4	4,099	91.6
American Indian or Alaskan Native	47	23.4	17.0	40	90.0
Asian	1,901	11.4	6.1	1,825	93.3
Hispanic or Latino	12,006	20.8	12.3	10,921	89.8
Multi-race, non-Hispanic or Latino	1,145	16.1	7.9	1,076	91.5
Native Hawaiian or Pacific Islander	-	-	-	-	-
White	8,114	12.5	6.3	7,735	93.1

**Data for populations less than 6 not reported.*

Source: Massachusetts Department of Elementary and Secondary Education.

Worcester: Student Discipline Report, 2017—2018					
Student Group	Students	Students Disciplined	Percent In-School Suspension	Percent Out-of-School Suspension	Percent Emergency Removal
All Students	27,586	2,345	3.3	5.5	1.8
English Learner	10,204	807	2.8	5.2	1.9
Economically disadvantaged	17,984	1,892	3.9	7	2.3
Students w/disabilities	5,537	880	5.9	11.3	3.6
High needs	22,246	2,151	3.7	6.4	2.1
Female	13,376	788	2.3	4	1
Male	14,209	1,557	4.2	7	2.6
Amer. Ind. or Alaska Nat.	48	10	10.4	14.6	2.1
Asian	1,896	48	1.1	1.3	0.4
African. Amer./Black	4,435	406	3.8	5.5	1.9
Hispanic/Latino	11,978	1,297	4.1	7.3	2.3
Multi-race, Non-Hisp./Latino	1,141	131	4.4	8.2	2.8
Native Hawaiian. or Pacific Islander	6	0	*	*	*
White	8,082	453	2	3.6	1.3

*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 2017-2018 as of 3/21/2019.

Worcester Regional Research Bureau, Inc.

*Officers & Executive Committee***Chairman of the Board:**

Abraham W. Haddad, D.M.D.

Vice Chairman:

Deborah Penta

Treasurer:

George W. Tetler III, Esq.

Clerk:

Dimitrios M. Moschos, Esq.

Executive Committee Members:

Karen E. Duffy
 Francis Madigan, III
 Susan Mailman
 Michael Mulrain
 Richard F. Powell, CPA
 Todd Rodman, Esq.
 John J. Spillane, Esq.
 Brian Thompson
 Janice B. Yost, Ed.D.

Board of Directors

Kola Akindede, JD
 Peter Alden
 Michael P. Angelini, Esq.,
 Paul Belsito
 Janet Birbara
 Roberta L. Brien
 Edward S. Borden
 Philip L. Boroughs, S.J.
 Brian J. Buckley, Esq.
 Francesco C. Cesareo, Ph.D.
 J. Christopher Collins, Esq.
 Michael Crawford
 Nancy P. Crimmin, Ed.D.
 Kathryn Crockett
 David Crouch
 Ellen Cummings
 James Curran
 Jill Dagilis
 Andrew Davis
 Christine Dominick
 Donald Doyle
 Ellen S. Dunlap
 Sandra L. Dunn
 Tarek Elsayy, MD
 Susan West Engelkemeyer, Ph.D.
 Aleta Fazzone
 Mitchell Feldman
 Allen W. Fletcher
 David Fort
 Michael J. Garand

Tim Garvin
 Lisa Kirby Gibbs
 Joel N. Greenberg
 J. Michael Grenon
 Kurt Isaacson
 Will Kelleher
 Paul Kelly
 Richard B. Kennedy
 Geoff Kramer
 Cheryl Lapriore
 Laurie A. Leshin, Ph.D.
 Karen E. Ludington, Esq.
 Barry Maloney
 Edward F. Manzi, Jr.
 Mary Jo Marión
 Samantha McDonald, Esq.
 Neil D. McDonough
 Kate McEvoy-Zdonczyk
 Thomas McGregor
 Joseph McManus
 Martin D. McNamara
 Satya Mitra, Ph.D.
 Robert J. Morton
 Timothy P. Murray, Esq.
 James D. O'Brien, Jr., Esq.
 Michael V. O'Brien
 Andrew B. O'Donnell, Esq.
 JoAnne O'Leary
 Deborah Packard
 Joe Pagano

Anthony Pasquale
 Luis Pedraja, Ph.D.
 Sam S. Pepper, Jr.
 Christopher M. Powers
 John Pranckevicius
 Paul Provost
 David Przesiek
 Marcy Reed
 Mary Lou Retelle
 Mary Craig Ritter
 K. Michael Robbins
 Joseph Salois
 Anthony J. Salvidio, II
 Anh Vu Sawyer
 J. Robert Seder, Esq.
 Katherine Sharry
 Philip O. Shwachman
 Troy Siebels
 Michael Sleeper
 Nicholas Smith
 Peter R. Stanton
 John C. Stowe
 Joseph P. Sullivan, Esq.
 Peter Sullivan
 Polly A. Tatum, Esq.
 Eric K. Torkornoo
 Ann K. Tripp
 Jon Weaver
 Gayle Flanders Weiss, Esq.

*Staff***Director of Programs & Operations:**

Eric R. Kneeland

Research Associate:

Thomas J. Quinn
 Mary E. Burke

Research Interns:

Zachary Durand
 Emily Fernandes
 Anh Thy Nguyen

Many thanks to MassDevelopment for its generous sponsorship of the 2019 Worcester Almanac.

THE RESEARCH BUREAU

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.
500 Salisbury Street
Worcester, MA 01609
508.799.7169 / www.wrrb.org

