

Report 16-02 March 2016

Worcester Almanac: 2016

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From The Research Bureau

Data matter. Since its founding, The Research Bureau has worked to identify, compile, analyze, and present data about municipal issues and solutions for the benefit of the public and policymakers alike. Through a combination of primary and secondary data, The Research Bureau has looked into diverse topics ranging from public finance, education, administration, safety, economic development, and public works. Only through reliable and comprehensive data can issues be accurately identified and addressed thoroughly and without unintended consequence. This *Almanac* is an annual compendium of data about Greater Worcester. Ongoing, regular compilation of data allows us the opportunity to explore both point-in-time and longitudinal change occurring throughout this dynamic area. We invite you to explore all of the activities of The Research Bureau on our website at www.wrrb.org and check us out on Facebook and Twitter.

From MassDevelopment, Generous Sponsor of The Worcester Almanac

Worcester serves as a central location for the Commonwealth's economy thanks to the commitment of its academic, business, civic, and nonprofit institutions. With an office and staff in downtown Worcester, MassDevelopment provides a wide array of programs and resources to help Worcester develop and grow.

An overview of the projects financed by MassDevelopment in 2015 illustrates the variety of our programs that help to stimulate investment and growth in the City of Worcester. Last year, MassDevelopment provided funding support to: Clark University for campus improvements and refinancing; Seven Hills Foundation for capital expenditures and refunding; upgrades at the five branches of YMCA of Central Massachusetts; Condron Worcester Realty's renovation of a commercial building on Shrewsbury Street; Worcester Business Development Corporation's remediation of the former PresMet Corporation brownfield site; and such cultural institutions as the Joy of Music Program, The Hanover Theatre, Massachusetts Symphony Orchestra, and Worcester Center for Crafts through the Cultural Facilities Fund.

The Transformative Development Initiative partnership for Worcester's Theatre District continued its dynamic and collaborative work to build a bustling hub of cultural activity and entertainment downtown. The City was the site for the annual Gateway Cities Summit, where MassDevelopment unveiled its analysis of the first year of TDI, and has become a central meeting place for TDI forums and workshops.

Central Massachusetts has a strong manufacturing sector in both industry and academia. For the fourth year in a row, a Worcester-based partnership – led by Quinsigamond Community College and made up of the Central Massachusetts Workforce Investment Board, Community Development Training Institute, Massachusetts Manufacturing Extension Partnership, the Worcester Public Schools, and Blackstone Valley Education Foundation – received funding through MassDevelopment's "AMP it up!" program to target teachers, school counselors, college faculty, families, and parents who influence career exploration and decision-making for students in grades 7 through 12 to urge them to pursue manufacturing careers. On the higher education side, as part of an Advanced Manufacturing Futures Fund grant program, Worcester Polytechnic Institute is one of four manufacturing Innovation Centers to help small- to medium-sized manufacturers grow.

In order to develop Massachusetts' Gateway Cities like Worcester, MassDevelopment believes in understanding the nuances of the community and its economy. The Agency's first Gateway Cities Economic Snapshot, which it commissioned this year, only reinforced that belief. The *Worcester Almanac* represents a local effort to understand and monitor changes in the growing Greater Worcester region. MassDevelopment is grateful for a long history and partnership with the Worcester Regional Research Bureau and we look forward to strengthening our relationship through projects like the *Worcester Almanac*.

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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 city-wide (or atlarge) 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 city-wide members. The School Committee sets district-wide 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



Mayor

Joseph M. Petty

City Council

Anthony J. Economou, District 1
Candy F. Mero-Carlson, District 2
George J. Russell, District 3
Sarai Rivera, District 4
Gary Rosen, District 5
Morris Bergman, At-Large
Michael T. Gaffney, At-Large
Khrystian E. King, At-Large
Konstantina B. Lukes, At-Large
Kathleen M. Toomey, At-Large

City Manager

Edward M. Augustus, Jr.

School Committee

Dianna L. Biancheria
Donna M. Colorio
John L. Foley
Molly O. McCullough
John F. Monfredo
Brian A. O'Connell

Superintendent

Marco C. Rodrigues, Interim Superintendent of Schools

City Clerk

David J. Rushford

City Auditor

Robert V. Stearns

City Manager's Cabinet

Kathleen G. Johnson, Acting Assistant City Manager for Operations Geoffrey Gardell, Fire Chief

Richard H. Fiske, III, Emergency Communications & Emergency Management Director Gary J. Gemme, Police Chief

John R. Kelly, Inspectional Services Commissioner

David M. Moore, City Solicitor

Paul J. Moosey, Public Works & Parks Commissioner

Michael E. Traynor, Chief Development Officer

Thomas F. Zidelis, Chief Financial Officer

Elected and Appointed Officials



Worcester Almanac: Government

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 Kate D. Campanale—17th Worcester

District Attorney

Joseph D. Early, Jr.

Clerk of Courts

Dennis P. McManus

Register of Deeds

Anthony J. Vigliotti

Register of Probate

Stephanie K. Fattman

County Sheriff

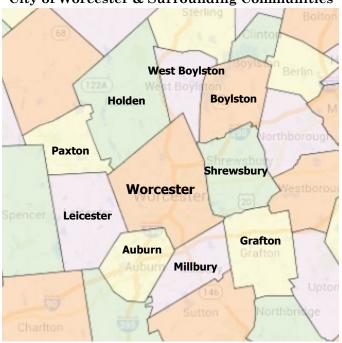
Lewis G. Evangelidis



Greater Worcester Executive/Administrative Leadership

Auburn—Julie A. Jacobson—Town Manager
Boylston—Martin McNamara—Town Administrator
Grafton—Timothy P. McInerney—Town Administrator
Holden—Jacquelyn Kelly—Town Manager
Leicester—Kevin J. Mizikar—Town Administrator
Millbury—Bob Spain—Town Manager
Paxton—Carol Riches—Town Administrator
Shrewsbury—Daniel J. Morgado—Town Manager
West Boylston—Nancy Lucier—Interim Town Administrator

City of Worcester & Surrounding Communities



City of Worcester:

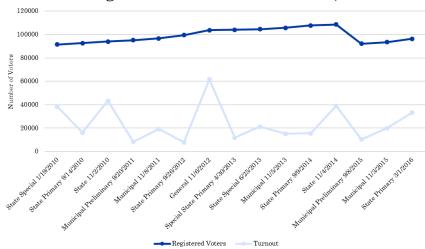
Area: 37.37 square miles (96.79 square kilometers)
Population: 182,511 (2014)
Population Density: 4,883.8 persons per square mile

Worcester County:

Area: 1,579 square miles (4,090 square kilometers)
Population: 806,804 (2014)
Population Density: 510.9 persons per square mile
60 cities and towns (including Worcester)



Worcester: Registered Voters & Ballots Cast, 2010-2016



Source: Massachusetts Secretary of State and 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 21.3% of registered voters turned out in November 2015 to vote for the Mayor, City Council, School Committee. State elections, which ocin even-numbered years, and especially elections including the election for President, experience the highest turnout.

Worcester: Party Affiliation & Registration, 2016

As of January 2016, 46.5% of Worcester's registered voters were not enrolled in a political party. 43.7% of voters were Democrats while 8.5% of voters were Republicans.

Party Affiliation	Registered Voters
Unenrolled	44,197
Democrat	41,544
Republican	8,129
Libertarian	219
Green Rainbow	169
Interdependent Third Party	53
Green Party USA	12
Conservative	10
MA Independent Party	18
United Independent Party	608
Reform	7
Pizza Party	7
Socialist	6
Working Families	6
American Independent	8
Pirate	6
We the People	5
Rainbow Coalition	3
Constitution Party	3
Natural Law Party	2
Twelve Visions Party	1
New World Council	1
Veteran Party America	1

Source: City of Worcester Elections Division.



Worcester: Property Tax Rates, FY16		
Type Fiscal Year 2010		
Residential	\$20.61	
Commercial/Industrial/ Personal Property (CIP)	\$33.98	

Source: City of Worcester. Rates are per \$1,000.

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 non-voting taxpayers. A single tax rate is represented by a factor of "1."

Worcester: Tax Shift, FY16			
Lowest Residential Factor Allowed	Residential Factor Selected	Maximum CIP Shift Allowed	CIP Shift
.7977	.8425	1.5	1.3893

Source: City of Worcester Assessing Department.

Worcester: Tax Value of Property, FY16			
Tax Status	Estimated Value	Percent of Total	
Total Taxable and Tax-Exempt Property Value	\$16,185,676,887	100.00%	
Taxable Property Values	\$11,236,881,245	69%	
Tax-Exempt Property Values	\$4,948,795,642	31%	
Class			
Residential	\$8,000,020,549	49%	
Commercial/Industrial/Personal Property	\$3,236,860,696	20%	

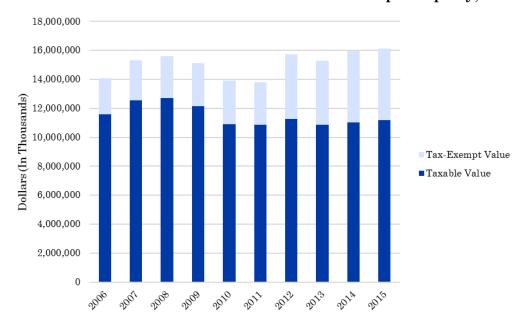
Source: City of Worcester Assessor's Office & Massachusetts Department of Revenue.

Worcester: Other Taxes, FY15			
	Tax Rate	FY15	
Meals			
State	6.25%	\$19,019,336*	
Local	0.75%	\$2,502,544	
DCU Center Special District (To City)	7%	\$683,629	
Hotel			
State	5.7%	\$754,901.46*	
Convention Center Fund (To State)	2.75%	\$364,206.85*	
Local	6%	\$794,633.12	
DCU Center Special District (To City)	11.7%	\$1,357,860.13	
Motor Vehicle Excise	\$25 per \$1000	\$14,133,156**	

Source: City of Worcester Administration & Finance. *Estimated. **Unaudited.

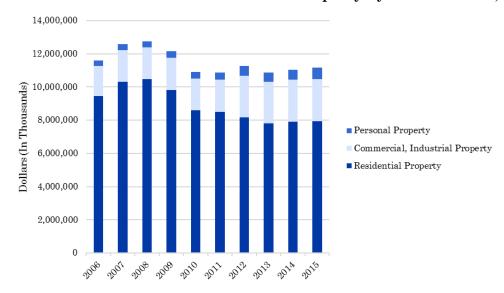


Worcester: Assessed Value of Taxable & Tax-Exempt Property, 2006-2015



Source: City of Worcester Comprehensive Annual Financial Report, 2015.

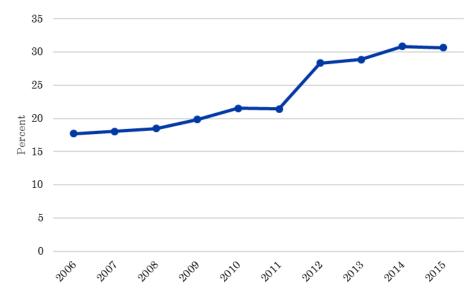
Worcester: Assessed Value of Taxable Property by Classification, 2006-2015



Source: City of Worcester Comprehensive Annual Financial Report, 2015.

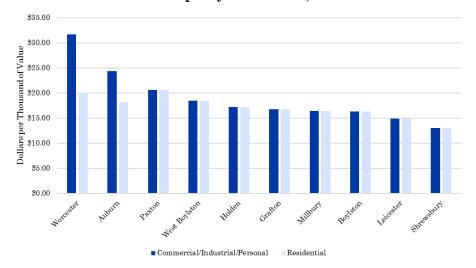


Worcester: Tax-Exempt Value as Percent of Total Property Values, 2006-2015



Source: City of Worcester Comprehensive Annual Financial Report, 2015.

Greater Worcester: Property Tax Rates, FY16



Only Worcester and the Town of Auburn tax commercial properties at a higher rate than residential properties in Greater Worcester.

Source: Massachusetts Department of Revenue. Rates are per \$1,000.



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.

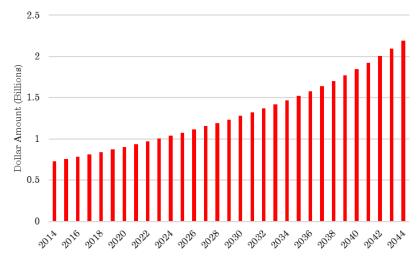
The City of Worcester, like most municipalities, has struggled with outstanding pension and OPEB liability. In 1992, the Commonwealth of Massachusetts offered grant funding to cities and towns that committed to a schedule to eliminate unfunded pension liability. The City of Worcester accepted the offer, 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, 2015		
Total Pension Liability	\$1,228,555,000	
Funded Portion of Pension Liability	\$825,633,000	
Funded Pension Obligation	67.2%	

While pension liabilities must be forward-funded, Massachusetts does not mandate that municipalities address OPEB liabilities. Under the City's Five-Point Plan, Worcester contributes 30% of Free Cash—the surplus funds 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 \$2.1 billion within the next 30 years.

Worcester: Other Post-Employment Benefit Liability, June 30, 2015		
Total OPEB Liability	\$727,823,149	
Funded Portion of OPEB Liability	\$8,364,059	
Funded OPEB Obligation	1.2%	

Worcester: Other Post-Employment Benefits (OPEB) Projected Liability, 2014-2044



Source: City of Worcester, 2015.



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, 2015	
Rating Agency	Rating
Fitch Ratings	AA-
Moody's Investors Service	Aa3
Standard & Poor's Rating Service	AA-

Source: City of Worcester.

Worcester: Public Debt, 2015	
Total Outstanding Long-Term Indebtedness as of 12/1/2015	\$629,891,991
Self-Supporting Debt*	\$227,858,133
Bond Anticipation Notes as of 12/1/15	\$35,665,774
Bonded Debt per Capita	\$3,388
Bonded Debt as a % of Assessed Valuation	5.55%
Bonded Debt as a % of Personal Income per Capita	13.93%

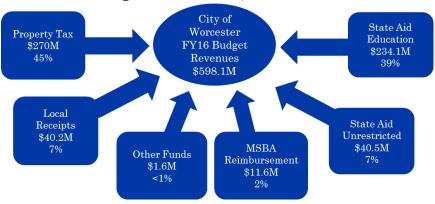
Source: City of Worcester. *Self-Supporting Debt includes water, sewer, City Square, public garages, the DCU Special District, and other enterprise accounts.

Worcester: Fund Balance, FY15	
Fund Balance—FY15	\$35,247,725
Change in Fund Balance—FY14 to FY15	\$357,552
Fund Balance as a % of FY16 Budget	5.89%

Source: City of Worcester Comprehensive Annual Financial Report, 2015.



Worcester: Budgeted Revenues, FY16



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.

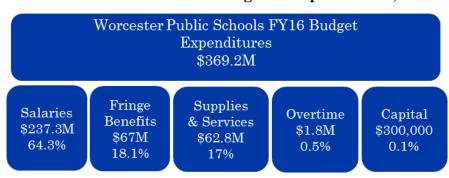
City leadership has discretion over only a small part of the City's expenditures. A significant portion—80%—of the City's annual budget is fixed obligations to education, pensions, and debt service.

Worcester: Budgeted Expenditures, FY16



Worcester Public Schools: Budgeted Expenditures, FY16

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



Source (All Graphs): City of Worcester & Worcester Public Schools Fiscal 2016 Budgets.



Greater Worcester: Municipal Budgets, FY16			
	Total Municipal Budget (including Education)	Education Budget Only	
Auburn	\$52,288,549	\$23,336,872	
Boylston	\$13,339,798	\$8,133,775	
Grafton	\$54,648,743	\$30,336,872	
Holden	\$44,880,195	\$22,433,618	
Leicester	\$25,548,112	\$15,748,000	
Millbury	\$39,452,783	\$19,885,050	
Paxton	\$12,265,377	\$5,951,637	
Shrewsbury	\$110,699,866	\$59,129,797	
West Boylston	\$22,472,915	\$11,028,000	

Source: Individual Town Budgets.



Worcester: Budgeted Employee Counts	, FY16
Positions	# of Budgeted
Legislative Offices	Employees
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	9
Elder Affairs	8
Public Library	100
Dept. of Economic Development	
Economic Development	37
Workforce Investment Board	9
Workforce Central Career Center	36
Cable Services	4
License Commission	3
Public Health	23
Human Resources	17
Law Department	15
Police Department	508
Fire Department	428
Emergency Communications	78
Dept. of Inspectional Services	60
Worcester Public Schools	3,902
Public Works and Parks	
Golf	2
Public Works	197
Parks, Recreation, and Hope Cemetery	54
Enterprise: Sewer Division	68
Enterprise: Water Division	134
Administration & Finance	
Finance	42
Assessing	10
Technical Services	27
City Energy and Asset Management	13
TOTAL: CITY ONLY	1,922
TOTAL: CITY & WPS	5,824

Each year, as part of the annual budget process, the City Council approves staff positions within City departments. Authorized positions are filled at the discretion of the City Administration and can be full-time or part-time. While City Council budgeted for 5,824 positions, 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, FY16		
Positions	# of Budgeted Employees	
District Administrators	23	
School Administrators	79	
Teachers	2,158	
Instructional Assistants	601	
Bus Monitors	39	
Crossing Guards	106	
Educational Support	88	
Custodial Services	153	
Maintenance	33	
Full Year Clerical	63	
School Year Clerical	68	
School Nurses	55	
District Support	50	
Bus Drivers	42	
Child Nutrition	230	
Head Start	114	
TOTAL	3,902	

Source: City of Worcester.



Worcester: Building Permits, 2015		
Total # of Permits	2,508	
Estimated Cost of Construction	\$152.6M	

Source: City of Worcester Executive Office of Economic Development.

Worcester: Trash and Recycling, 2015			
Trash Collected 21,074 tons			
Recycling Collected	9,993 tons		

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

Worcester: Public Library System, 2015		
# of Independent Branches	3	
# of School-Based Branches	3	
Print Holdings (including periodicals)	729,285	
Total Circulation	1,002,521	
Total Number of Visits	97,910	

Source: Worcester Public Library.

Worcester: Water and Sewer Rates, 2015*			
	FY14	FY15	FY16
Water Rates	\$3.51	\$3.54	\$3.60
Sewer Rates	\$5.94	\$6.29	\$6.62

^{*}Rates are per 100 cubic feet of usage

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

Worcester: Parks and Recreation	, 2015
# of Parks	60
# of Playgrounds	34
# of Fields for Sports	124
Swimming Beach, Pool, Spray Park	7
Total Park Acreage	1316.05
% of Total Acreage in City	6.3%
# of State Parks	1
# of State Pools and Beaches	3

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



Demographics & Economy

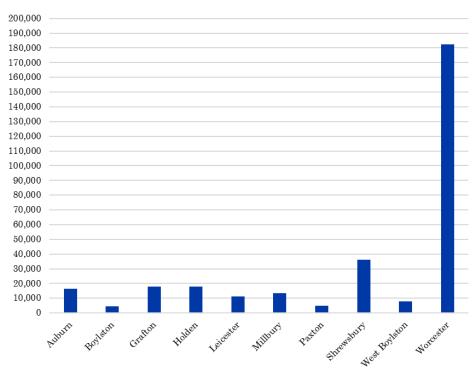


City of Worcester Population: 182,511

131st Largest City in the United States 2nd Largest City in New England

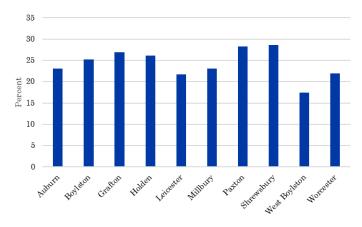
Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Greater Worcester: Population, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

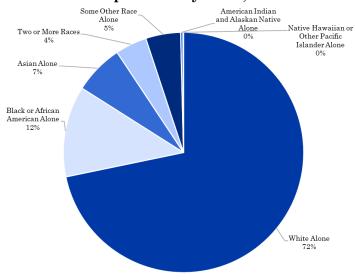
Greater Worcester: % of Population Under 18 Years of Age, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

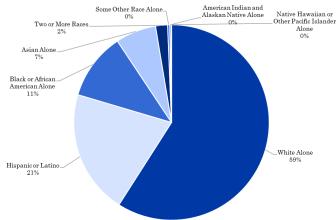


Worcester: Population by Race, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Population by Race & Ethnicity, 2014



Source: U.S. Census Bureau, 2010-2014 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, 2014" 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.

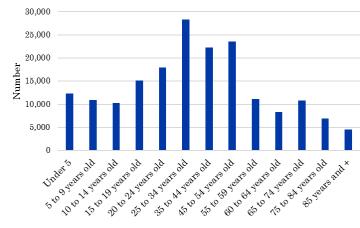
"Worcester Population by Race & Ethnicity, 2014" illustrates Worcester's population by both race and ethnicity. It indicates that people who identify as Hispanic or Latino make up approximately 21% of Worcester's population, however it does not account for their racial composition and therefore may undercount certain racial categories.



Population

Worcester Almanac: Demographics & Economy

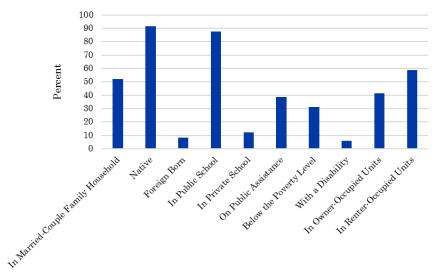
Worcester: Population by Age, 2014



According to the U.S. Census Bureau, the median age of Worcester residents is 33.5 years old. The median age of Massachusetts is 39.3 and the median age of the United States is 37.34

Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Children Under 18 Years of Age, 2014



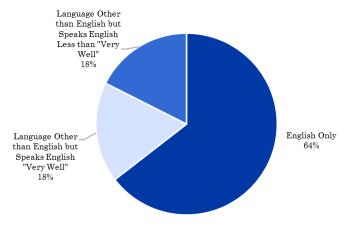
Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Veterans, 2014	
Number	8,741
Veterans as % of Population 18 and Older	6.13%
Male	92.5%
Female	7.5%
Disabled	27.5%
Below the Poverty Line	10.5%

Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.



Worcester: Language Spoken At Home and English Fluency, 2014



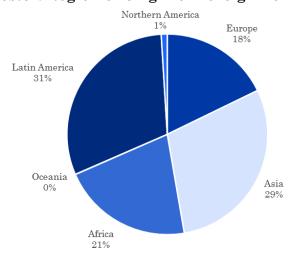
In 2014, 64.5% of the Worcester population spoke English, 16.7% spoke Spanish, and 18.7% spoke some other language. According to the Worcester Public Schools, more than 90 languages are spoken by children in the school system.

Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Foreign Born Residents, 2014		
Total Foreign Born	Foreign Born Naturalized Citizen	Foreign Born Not US Citizen
39,083	18,958	20,125

Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Region of Origin of Foreign Born Residents, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Approximately 1 in 5 residents of Worcester was born outside the United States, with nearly one-third of those residents originating in Latin America followed closely by Asia.



Worcester: Households, 2014			
Total # of Households	68,000		
Family Households	58.4%		
Non-Family Households	41.6%		
Households with Children under 18	31.2%		
Median Household Income	\$46,105		
Average Household Size			
Owner-occupied	2.66		
Renter-occupied	2.4		
Average Family Size	3.23		

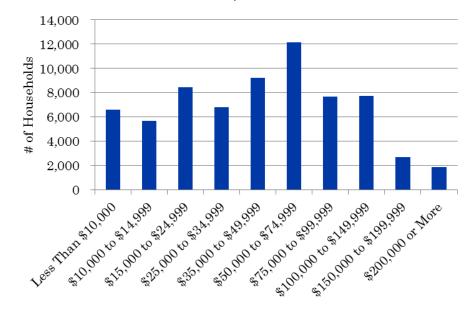
Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

According to the U.S. Census Bureau, the median household income in Worcester is \$46,105. The median household income of Massachusetts is \$67,846 and the median household income of the United States is \$53,482.

According to the U.S. Department of Housing and Urban Development, the Worcester Area Median Family Income (which includes Worcester and surrounding towns) is \$81,100.

N.B. "Median Household Income" is the income that has an equal number of households above and below that income level.

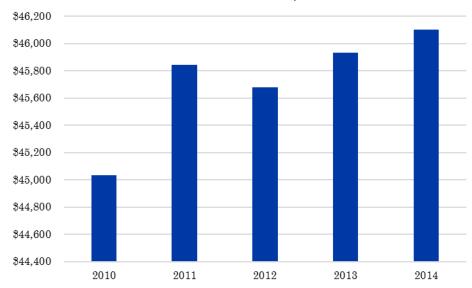
Worcester: Household Income, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

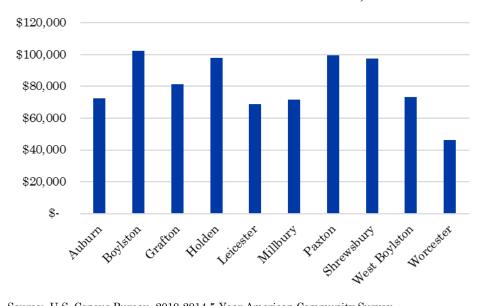


Worcester: Median Household Income, 2010-2014



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

Greater Worcester: Median Household Income, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

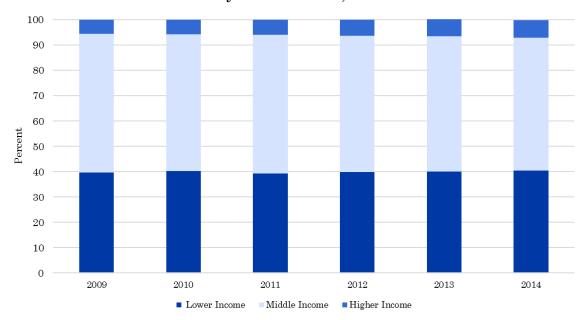


Worcester's Middle Income*

The Pew Research Center defines middle income, or middle class, as households between 67% to 200% of the state median income. For a family of four, a middle class household income would range from \$48,347 to \$145,040. 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, without adjustment for household size, to approximate The Pew Research Center's definition of middle income for Worcester. In 2014, approximately 52.4% of Worcester households were in the middle income range, 40.7% of Worcester households were in the lower income range, and 7% of Worcester households were in the upper income range.

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

Worcester: % of Households by Income Level, 2009 - 2016



Source: U.S. Census Bureau, 5-Year American Community Surveys, 2009 - 2014

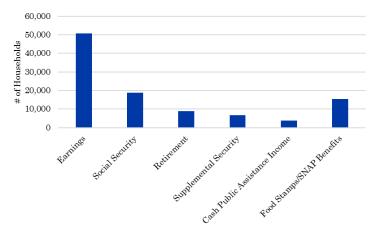
*According to Pew Research Center:

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.



Worcester: Sources of Household Income, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

In 2014, the large majority of Worcester's 68,000 households derived income through earnings. Other income sources included Social Security and Food Stamps/SNAP (Supplemental Nutrition Assistance Program) Benefits. The mean earnings for Worcester households was \$68,078.

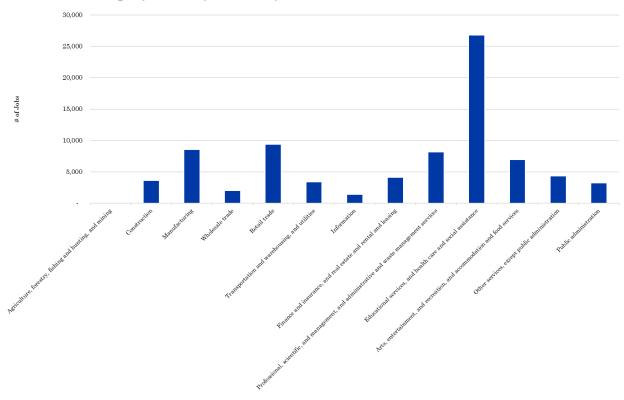
Worcester Economic Index, 2015		
Month	Worcester Economic Index	
January	107.6	
February	108.0	
March	108.3	
April	108.7	
May	109.0	
June	109.3	
July	109.5	
August	109.6	
September	109.6	
October	109.6	
November	109.5	
December	109.4	

Source: Thomas White, Assumption College.

The quarterly Worcester Economic Indicators Report, developed by Thomas White, Chair of 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).



Worcester: Employment by Industry, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Employment & Wages by Industry, 2014			
Industry, Population Over 16 Employed	2014	Median Earnings	
Arts, Entertainment, Recreation, Accommodation Services	8.46%	\$15,828	
Other Services	3.98%	\$22,608	
Retail Trade	11.39%	\$22,909	
Transportation, Warehousing, Utilities	4.18%	\$31,355	
Wholesale Trade	2.48%	\$32,043	
Educational Services, Health Care, Social Assistance	32.51%	\$32,459	
Agriculture, Forestry, Fishing, Hunting, Mining	0.14%	\$32,467	
Construction	4.43%	\$40,126	
Manufacturing	10.39%	\$41,375	
Professional, Scientific, Management, Administrative Waste Management Service	9.92%	\$42,519	
Finance and Insurance, and Real Estate and Rental and Leasing	5.05%	\$43,274	
Information	1.74%	\$43,529	
Public Administration	5.27%	\$53,203	

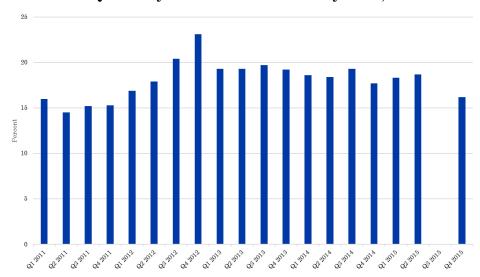
Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.



Worcester: Office and R&D Space, 2015*					
	1Q 2015	2Q 2015	3Q 2015	4Q 2015	
Square Feet (SF) Supply	2,057,183	2,057,183	NA	2,057,183	
Direct SF Available	316,753	326,240	NA	285,818	
Sublease SF Available	58,702	58,702	NA	46,755	
Vacancy Rate (%)	18.3	18.7	NA	16.2	

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

Worcester: Quarterly Office & R&D Vacancy Rate, 2011-2015



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 3rd Quarter 2015.

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

Worcester: Hotels, 2015*			
	Rooms		
Beechwood Hotel	73		
Courtyard Worcester	134		
Hilton Garden Inn Worcester	199		
Holiday Inn Express Worcester	96		
Downtown	30		
Quality Inn & Suites Worcester	49		
Residence Inn Worcester	129		
Suburban Extended Stay	65		
Worcester	บอ		
Total Hotel Rooms	745		

Worcester: Hotel Market, 2015			
Occupancy	78.6%		
Supply	271,925 Room Nights		
Demand	213,860 Room Nights		
Average Daily Rate	\$128.11		
Revenue per Available Room	\$100.75		

Source: Discover Central Massachusetts.

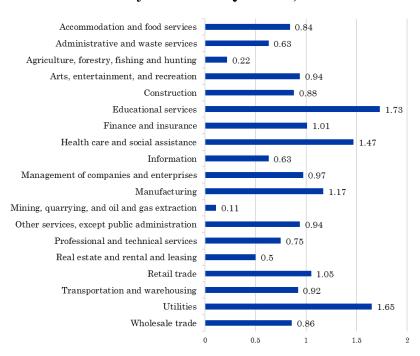
Source: Discover Central Massachusetts.

Three hotels are also currently planned or under construction in Worcester: Hampton Inn & Suites at Gateway Park (100 Rooms, Opening 2016), Homewood Suites by Hilton at Washington Square (120 Rooms, Opening 2017), and AC Marriott at CitySquare (168 Rooms, Opening 2017).



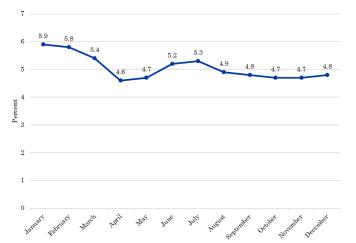
The location quotient (LQ) shows the distribution of employees in a particular industry and geographic region compared to the distribution of employees in that same industry in the entire United States. The national average of employees for each industry is represent by the number "1". If Worcester County has more employment in a certain industry than the national average, the County number is greater than one. For example, the County's LQ of 1.73 in Educational Services means that Worcester County has 1.73 times the per capita number of employees in that field compared with the national average.

Worcester County: Location Quotient, 2014



Source: Bureau of Labor Statistics.

Worcester Metropolitan Statistical Area: Unemployment Rate, 2015



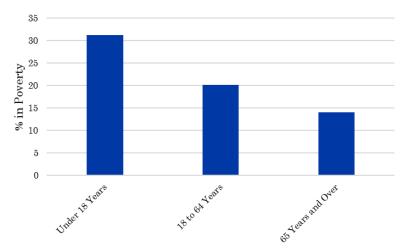
A metropolitan statistical area includes a central urban area and surrounding suburban and rural areas that are connected economically. The Census Bureau defines the Worcester Metropolitan Statistical Area County, Worcester Massachusetts Windham County, Connecticut.

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



According to the U.S. Census Bureau, 22% of Worcester's population is below the poverty level, while 11.6% of the Massachusetts population and 15.6% of the United States population is below the poverty level. The weighted average poverty threshold for a family of four is \$24,250. Poverty is defined using pre-tax income.

Worcester: Residents in Poverty by Age, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Residents in Poverty by Educational Attainment, 2014

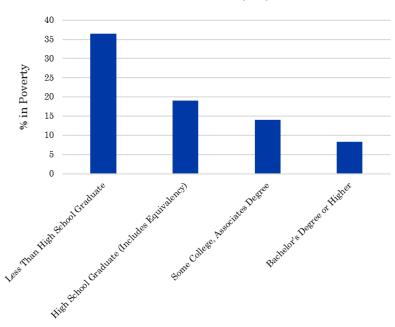
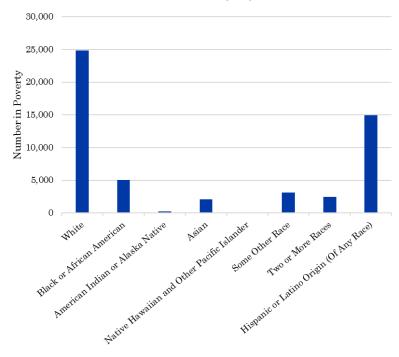


Chart includes population 25 years and over only. Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

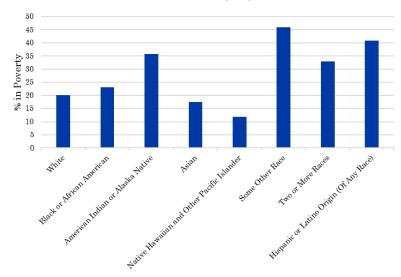


Worcester: Number in Poverty by Race, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

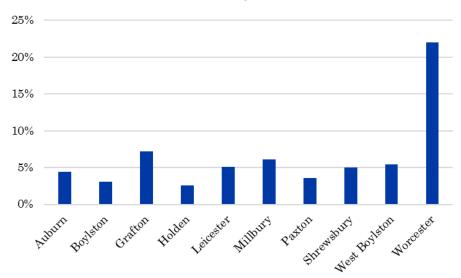
Worcester: Percent in Poverty by Race, 2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.



Greater Worcester: % in Poverty, 2014



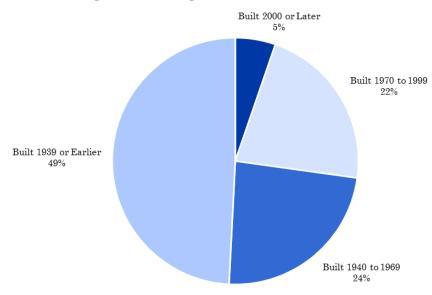
Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.



Worcester: Housing Units, 2014			
Total Housing Units	75,283		
Occupied Housing Units	68,000		
Vacant Housing Units	7,283		
Housing Units in Multi-Unit Structures	46,126		

Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Age of Housing Stock, 2014



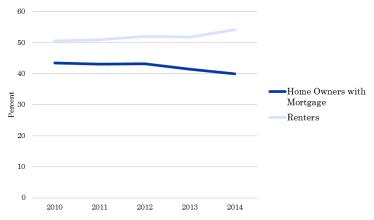
Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Homeowners & Renters, 2009 & 2014					
	2009		2014		
	Number	% of Total Households	Number	% of Total Households	
Homeowners	33,347	48.8%	29,936	44%	
Renters	34,902	51.1%	38,064	55.9%	

Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.



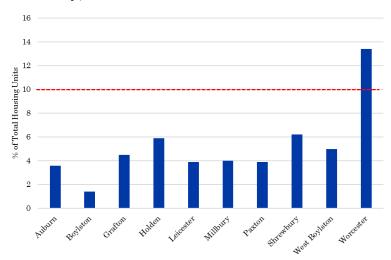
Worcester: % of Households Spending 30% or More of Income on Housing, 2010-2014



Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

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, longterm housing for income individuals 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 quirements.

Greater Worcester: Chapter 40B Subsidized Housing Inventory, 2015



Source: Massachusetts Department of Housing & Community Development. As of December 2015. Red line indicates 10% threshold called for under Chapter 40B.

Worcester County: Annual Point-in-Time Homeless Count - February 25, 2015				
	Sheltered		Unsheltered	Total
	Emergency Shelter	Transitional Housing		
# under age 18	569	142	2	713
# ages 18-24	107	36	2	145
# age 24+	540	212	72	824
Total Homeless	1,216	390	76	1,682

Source: Central Massachusetts Housing Alliance.



Health

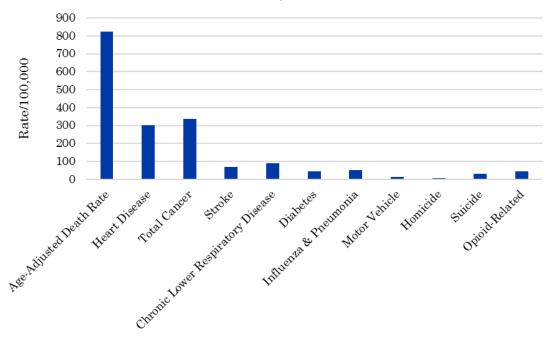


Worcester Almanac: Health

Worcester: Vital Statistics, 2015			
Births	5,794		
Deaths	3,223		
Marriages	1,168		

Source: City of Worcester Clerk's Office.

Worcester: Selected Causes of Death, 2013



Source: Massachusetts Department of Public Health.

Worcester: Massachusetts Community Health Information Profile Data			
	Worcester	Massachusetts	
Fertility Rate (per 1,000) (2010)**	58.0	53.8	
Teen Birth Rate (Ages 15-19 per 1,000 births) (2010)**	16.3	10.6	
Infant Mortality Rate (per 1,000 births) (2009)*	6.42	4.29	
Admission to DPH-Funded Treatment (2014)**	4,915	104,233	
Current Smokers (2013)*	23%	16.6%	
Binge Drinkers (2013)*	20%	19%	
Overweight (2013)*	60%	58%	
Obese (2013)*	27%	24%	
Diabetic (2013)*	12.8%	8.5%	

Source: *Greater Worcester Community Health Assessment, 2015. ** Massachusetts Department of Public Health. Except for Infant Mortality, all numbers relate to individuals 18 years old or above.



Worcester Almanac: Health

Worcester: Number and % Uninsured, 2014						
	Worcester		Worcester		Massac	husetts
	#	% Uninsured	#	% Uninsured		
Total Uninsured	8,310	4.6	252,920	3.8		
Under 18 Years	697	1.7	21,177	1.5		
18 to 64 Years	7,543	6.3	228,434	5.4		
65 Years and Older	70	0.3	3,309	0.4		
Male	5,093	5.9	154,764	4.9		
Female	3,217	3.4	98,156	2.9		

Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: # of Beds—Licensed or Certified Health Care Facilities, 20		
Acute Hospitals	1,017	
Non-Acute Hospitals	390	
Renal Dialysis	47	
Nursing Homes	2,315	
Rest Homes	278	

Source: Massachusetts Department of Public Health.

Worcester: National Institutes of Health Funding, FY15				
Biomedical Research Models, Inc.	1 Award	\$999,334		
Clark University	1 Award	\$233,960		
Glsynthesis, Inc.	3 Awards	\$1,980,965		
Microbiotix, Inc.	12 Awards	\$5,585,159		
Signablok, Inc.	2 Awards	\$893,102		
University of Massachusetts Medical School	325 Awards	\$131,445,732		
Vitathreads, LLC	1 Award	\$179,011		
Worcester Polytechnic Institute	7 Awards	\$2,583,196		
Zata Pharmaceuticals, Inc.	1 Award	\$402,588		
Total	353 Awards	\$144,303,047		

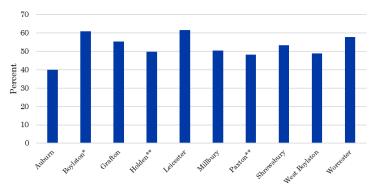
Source: National Institutes of Health.



Education

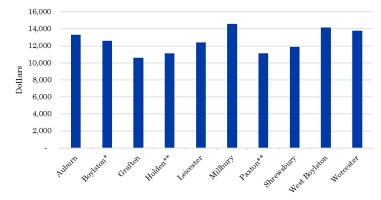


Greater Worcester: Education as % of FY16 Municipal Budget



Source: Individual Town Budgets.

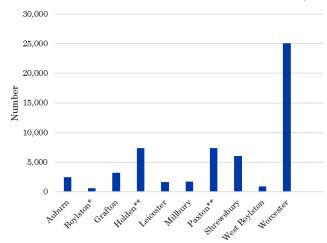
Greater Worcester: Per Pupil Spending, 2014



Source: Massachusetts Department of Elementary & Secondary Education.

- *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.

Greater Worcester: Number of Students, 2016



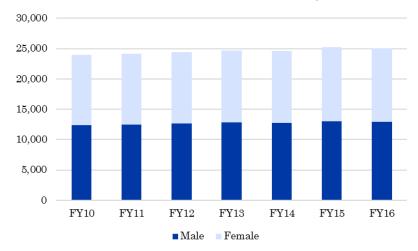


Worcester Public Schools: FY16			
	# of Schools		
Elementary Schools	33		
Middle Schools	4		
Grade 7-12 Schools	2		
High Schools	5		
Total	44		
	# of Students		
Elementary Schools	14,618		
Middle Schools	3,164		
Grade 7-12 Schools	747		
High Schools	6,547		
Total	25,076		
	# of Employees		
Administration	102		
Teachers and Educators	2,759		
Other	1,041		
Total	3,902		

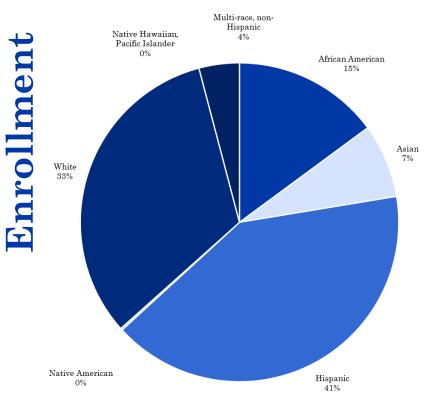
Source: Worcester Public Schools &

Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Enrollment by Gender, FY10-FY16



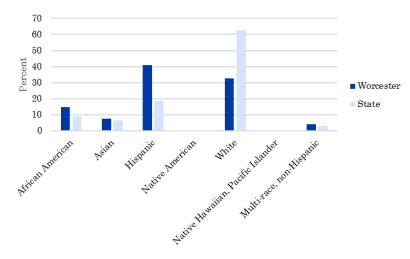
Worcester Public Schools: Enrollment by Race/Ethnicity, 2015-2016



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

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Enrollment by Race/Ethnicity Compared to State, 2015-2016





Worcester Public Schools: Enrollment FY16

	# of
Elementary & Middle Schools	Student
Belmont Street Community	582
Burncoat Middle School	534
Burncoat Street	224
Canterbury	370
Chandler Elementary Community	501
Chandler Magnet	487
City View	483
Clark Street Community	249
Columbus Park	456
Elm Park Community	475
Flagg Street	415
Forest Grove Middle	985
Francis J. McGrath Elementary	286
Gates Lane	647
Goddard School/Science Technical	483
Grafton Street	363
Head Start	571
Heard Street	295
Jacob Hiatt Magnet	450
Lake View	289
Lincoln Street	263
May Street	323
Midland Street	230
Nelson Place	468
Norrback Avenue	578
Quinsigamond	780
Rice Square	420
Roosevelt	643
Sullivan Middle	854
Tatnuck	388
Thorndyke Road	362
Union Hill School	492
Vernon Hill School	529
Wawecus Road School	145
West Tatnuck	342
Woodland Academy	626
Worcester Arts Magnet School	403
Worneston Foot Middle	701

High Schools	# of Students
Burncoat Senior High	1,026
Claremont Academy	497
Doherty Memorial High	1,486
North High	1,335
South High Community	1,342
University Park Campus School	250
Worcester Technical High	1,358

Worcester Public Schools: Level FY16			
11			
10			
22			
1			

Source: Massachusetts Department of Elementary & Secondary Education.

According to the Massachusetts Department of Elementary & Secondary Education, "All Massachusetts districts and schools with sufficient data are classified into one of five accountability and assistance levels, with the highest performing in Level 1 and lowest performing in Level 5. In general, a district is classified into the level of its lowest performing school, unless the district was classified into Level 4 or 5 as a result of action by the Board of Elementary and Secondary Education."

Source: Massachusetts Department of Elementary & Secondary Education

Worcester East Middle

791



Worcester: Private Schools, 2016
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 (9-12)
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)
Venerini Academy Elementary School (Pre-K-8)
Worcester Academy (6-12+)
Worcester Seventh Day Adventist School (1-8)

Worcester: Charter Schools, 2016

Abby Kelley Foster Charter Public School (K-12)

Seven Hills Charter Public School (K-8)

Worcester: Independent Public Schools, 2016

Massachusetts Academy of Math and Science (11-12)

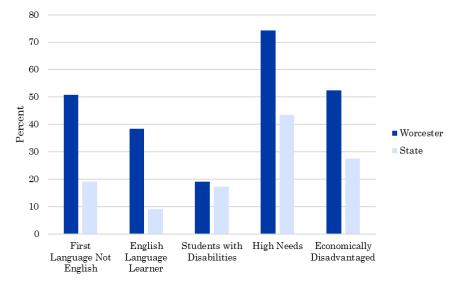
Source: Massachusetts Department of Elementary & Secondary Education and Worcester Regional Research Bureau.



Worcester Public Schools: Indicators, 2014-2015			
	Worcester	Massachusetts	
Grade 9-12 Drop Out Rate	1.7	2.0	
Attendance Rate	94.7	94.7	
Average Number of Days Absent	8.8	9.0	
Retention Rate	2.1	1.5	
Unexcused Absences > 9	29.8	12.5	

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Selected Populations, 2015-2016*

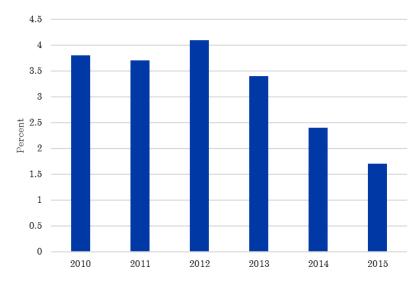


Source: Massachusetts Department of Elementary & Secondary Education.

*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.

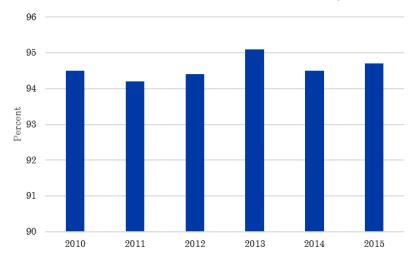


Worcester Public Schools: Grades 9-12 Drop-Out Rates, 2010-2015



Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Attendance Rates, 2010-2015





Worcester Public Schools: 4-Year Graduation Rates, 2015			
	% Graduated	% Still in School	% GED
All Students	80.8	8.6	.9
Male	77.9	10.6	.7
Female	84.0	6.5	1.2
English Language Learners	75.2	11.4	0.5
Students w/Disabilities	62.4	20.3	0.7
Low Income	79.1	9.5	1.1
High Needs	78.7	9.6	1.0
African-American/Black	82.2	8.1	1.0
Asian	91.5	3.7	0.6
Hispanic/Latino	74.9	12.0	0.9
American Indian or Alaska Native	68.8	6.3	0.0
White	84.0	6.6	0.9
Native Hawaiian, Pacific Islander*	-	-	-
Multi-Race, Non-Hispanic/Latino	88.2	2.9	2.9

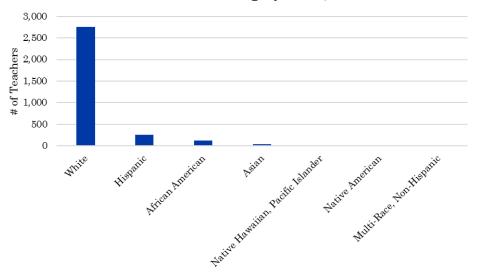
Source: Massachusetts Department of Elementary & Secondary Education. *Graduation rates are not publicly reported for cohort counts fewer than 6.



Worcester Public Schools: Teacher Data, 2014-2015				
	Worcester	State		
Total Number of Teachers	1,809.7	71,886.8		
Student-Teacher Ratio	14 to 1	13.3 to 1		
% of Teachers Licensed in Teaching Assignment	96.6	97.4		
% of Core Academic Classes Taught by Highly Qualified Teachers	98.7	95.4		

Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Staffing by Race, 2014-2015



Source: Massachusetts Department of Elementary & Secondary Education.

Worcester Public Schools: Staffing by Gender, 2015				
	Worcester Massachusetts			
Males	652	25,830		
Females	2,541	102,920		



Worcester Public Schools: MCAS Test Results, Spring 2015*								
	Advanced		nced Proficient		Needs Improvement		Warning/ Failing	
Grade and Subject	WPS	MA	WPS	MA	WPS	MA	WPS	MA
Grade 03 - Reading	5	11	33	49	44	32	18	9
Grade 03 - Mathematics	15	32	35	39	27	18	24	11
Grade 04 - Eng. Language Arts	8	11	38	43	37	33	17	14
Grade 04 - Mathematics	10	19	21	29	48	40	21	13
Grade 05 - Eng. Language Arts	14	23	40	48	32	20	14	9
Grade 05 - Mathematics	19	35	27	32	33	21	21	12
Grade 05 - Science & Tech/Eng.	8	16	24	35	43	37	24	13
Grade 06 - Eng. Language Arts	14	19	49	52	25	19	12	10
Grade 06 - Mathematics	21	30	33	32	28	24	18	14
Grade 07 - Eng. Language Arts	3	9	48	60	35	23	14	8
Grade 07 - Mathematics	7	20	19	30	25	26	48	23
Grade 08 - Eng. Language Arts	15	26	46	54	24	14	14	6
Grade 08 - Mathematics	12	29	16	31	22	23	50	17
Grade 08 - Science & Tech/Eng.	1	3	19	39	42	40	38	18
Grade 10 - Eng. Language Arts	30	49	51	42	14	6	5	3
Grade 10 - Mathematics	35	53	23	25	23	13	18	8
Grade 10 - Science & Tech/Eng.	12	27	37	44	41	23	10	5
All Grades - Eng. Language Arts	15	NA	44	NA	28	NA	12	NA
All Grades - Mathematics	20	NA	26	NA	29	NA	24	NA
All Grades - Science & Tech/Eng.	7	15	26	39	42	33	25	12

^{*}Spring 2015 results in grades 3-8 ELA and Mathematics include only students who participated in MCAS. Some students in the district participated in the Partnership for Assessment of Readiness for College and Careers (PARCC) examinations (see following page).



Worcester Public Schools: PARCC Test Results, Spring 2015										
	Leve	el 5	Lev	el 4	Lev	el 3	Lev	el 2	Lev	el 1
Grade and Subject	WPS	MA	WPS	MA	WPS	MA	WPS	MA	WPS	MA
GRADE 3 ELA/L	3	7	28	47	22	22	25	14	22	10
GRADE 3 Math	4	12	25	43	25	25	27	14	19	6
GRADE 4 ELA/L	5	15	29	42	32	25	21	12	12	5
GRADE 4 Math	3	6	25	41	27	29	31	18	15	5
GRADE 5 ELA/L	2	8	33	55	30	23	23	10	11	4
GRADE 5 Math	3	11	20	44	26	26	32	15	18	5
GRADE 6 ELA/L	5	12	35	48	34	25	18	11	9	4
GRADE 6 Math	2	10	23	44	33	28	28	14	14	5
GRADE 7 ELA/L	12	21	37	40	25	22	15	11	11	6
GRADE 7 Math	3	8	28	37	33	32	29	18	7	4
GRADE 8 ELA/L	9	16	41	48	27	20	16	10	8	5
GRADE 8 Math	6	10	28	43	22	22	23	15	21	10
GRADE 8 ALG. I	0	14	59	66	37	15	3	4	0	1
GRADES 3-8 ELA/L	6	13	34	47	28	23	19	12	12	6
GRADES 3-8 MATH	4	10	25	43	28	27	28	16	15	6
GRADE 9 ELA/L	6	8	39	32	29	25	14	19	12	17
GRADE 11 ELA/L	2	10	20	29	22	23	40	19	16	19
HS - ALG. I	0	1	0	21	9	28	45	33	45	17
HS - ALG. II	0	1	8	12	25	17	27	25	40	45

Source: Massachusetts Department of Elementary & Secondary Education.

PARCC Achievement Level Definitions:

Level 5: Exceeded Expectations (varies by grade–850)

Level 4: Met Expectations (750—varies by grade)

Level 3: Approached Expectations (725-749)

Level 2: Partially met Expectations (700-724)

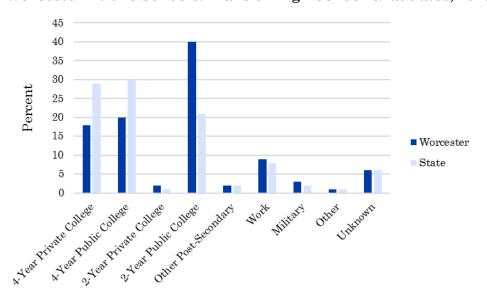
Level 1: Did not meet Expectations (650-699)



Worcester Public Schools: SAT Performance Report, 2014-2015					
	# of Test Takers	Average Reading Score	Average Writing Score	Average Math Score	
All Students	982	430	420	450	
Limited English Proficiency	134	312	312	347	
Low Income	444	400	388	421	
Special Education	70	337	331	346	
High Needs	565	395	386	416	
Female	548	431	427	442	
Male	434	427	411	461	
American Indian or Alaska Native*	9	-	-	-	
Asian	128	421	414	487	
Black or African American	196	402	399	408	
Hispanic	270	400	386	406	
Multi-race, Non-Hispanic	18	458	433	486	
White	361	468	456	491	

Source: Massachusetts Department of Elementary & Secondary Education. *Results not reported for populations less than 10.

Worcester Public Schools: Plans of High School Graduates, 2013-2014

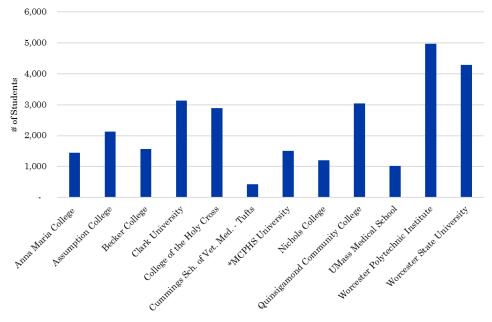




Greater Worcester: Colleges, 2015
Anna Maria College (Paxton)
Assumption College (Worcester)
Becker College (Worcester & Leicester)
Clark University (Worcester)
College of the Holy Cross (Worcester)
MCPHS University (Worcester & Boston)
Nichols College (Dudley)
Quinsigamond Community College (Worcester)
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.

Greater Worcester: Full-Time Enrollment at Colleges & Universities, 2015



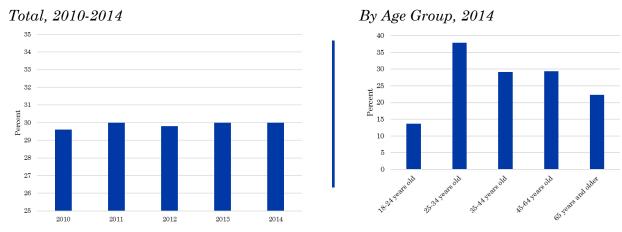
Source: Worcester Business Journal.



Worcester: Educational Attainment, 2014				
Population 25 Years and Over	116,083	100%		
Less than 9th Grade	9,054	7.8%		
9th to 12th Grade, No Diploma	9,286	8%		
High School Graduate, Includes Equivalency	34,128	29.3%		
Some College, No Degree	19,385	16.7%		
Associate's Degree	9,286	8%		
Bachelor's Degree	21,591	18.6%		
Graduate or Professional Degree	13,233	11.4%		

Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Population with Bachelor's Degree or Higher



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

Greater Worcester: % Population Over 18 with Bachelor's Degree or Higher, 2014			
Auburn	48.5%		
Boylston	68.5%		
Grafton	68.7%		
Holden	65.5%		
Leicester	36.4%		
Millbury	50.3%		
Paxton	69.4%		
Shrewsbury	71.6%		
West Boylston	47.1%		

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



Public Safety



Worcester Almanac: Public Safety

Worcester: Crime Statistics, 2015				
Incidents	130,310			
Arrests	6,254			
Disorderly Conduct	18,371			
Noise Disturbances	4,139			
Traffic Accidents	8,983			
Aggravated Domestic Assault	273			
Aggravated Non-Domestic Assault	416			
Shootings	31			
Shooting Victims	40			
Stabbings/Slashings	114			
Murder	8			
Robberies	424			
Breaking & Entering	1,378			
Motor Vehicle Theft	463			
Larceny from Motor Vehicle	1,434			
Vandalism	1,573			

Source: Worcester Police Department.

Worcester: Firearm Licenses, 2014				
Firearm Identification Cards (FIDs) 650				
Licenses to Carry (LTCs) 4,560				

Source: Worcester Police Department.

Worcester: Fire Department Activity, 2015			
Fire Calls	1,514		
Building Fires	129		
Emergency Medical Calls	22,779		
False Alarms	3,214		
Number of Companies	21		
Engines	13		
Ladders	7		
Rescue	1		

Source: Worcester Fire Department.



Worcester Almanac: Public Safety

Worcester: Fire Stations, 2016	
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.

Worcester: Staffing for Police & Fire, FY16 Budget				
FIRE	Number			
Fire Chief	1			
Deputy Fire Chief	2			
District Fire Chief	13			
Captain	24			
Lieutenant	70			
Firefighter	279			
Recruits	30			
Other	9			
Total	428			
POLICE	Number			
Chief of Police	1			
Deputy Police Chief	5			
Police Captain	6			
Police Lieutenant	22			
Police Sergeant	52			
Police Officers	346			
Recruits	23			
Other	53			
Total	508			

Source: City of Worcester.



Transportation



Worcester: Commute Times, 2014			
Mean Travel Time to Work	25 Minutes		

Source: U.S. Census Bureau, 2010-2014 5-Year American Community Survey.

Worcester: Work Commute Patterns (Workers 16 Years and Older), 2014					
	# of Worcester Residents	% of Worcester Residents	# of MA Residents	% of MA Residents	
Car, Truck, or Van—Drove Alone	59,611	74.2%	2,365,199	72.0%	
Car, Truck, or Van—Carpooled	8,977	11.2%	252,945	7.7%	
Public Transportation (Excluding Taxicab)	2,645	3.3%	312,075	9.5%	
Walked	4,923	6.1%	154,395	4.7%	
Other Means (Taxicab, motorcycle, bicycle, or other means)	1,196	1.5%	144,539	1.7%	
Worked at Home	3,038	3.8%	55,846	4.4%	
Total	80,390	100%	3,284,998	100%	

Source: U.S. Census Bureau, 2014 5-Year American Community Survey.

Greater Worcester: Registered Motor Vehicles, 2012									
	Auto- mobiles	Trailers	Light Trucks	Heavy Trucks	Motor- cycles	Other	Luxury Vehicles	Total Vehicles	Average Age of Motor Vehicles
Auburn	7,590	1,028	5,731	818	331	857	971	17,326	8.98
Boylston	2,137	306	1,634	189	113	257	436	5,072	8.87
Grafton	8,213	815	5,742	312	386	645	1,480	17,593	9.05
Holden	8,002	833	5,652	264	394	703	1,294	17142	8.73
Leicester	4,521	696	3,934	267	306	436	493	10,653	9.98
Millbury	6,132	858	4,668	425	397	554	844	13,878	9.55
Paxton	1,879	256	1,559	70	80	208	417	4,469	9.5
Shrewsbury	16,502	1,514	10,668	824	532	1,289	3,430	34,759	8.59
West Boylston	3,312	430	2,454	288	162	306	493	7,445	9.16
Worcester	64,955	2,816	36,253	1,937	1,718	5,265	8,924	121,868	10

Source: Massachusetts Department of Revenue.



Worcester: Street Infrastructure, 2015			
Streets (Miles)	517		
Public Streets (Miles)	435		
Private Streets (Miles)	82		
Sidewalks (Miles)	488		
Asphalt (Miles)	307		
Concrete (Miles)	181		
Street Lights	13,775		
Traffic Signals	185		
Parking Meters	2,000		
Parking Lots with Multi-Space Pay Stations	5		
Electric Car Charging Stations	6		

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



Worcester Regional Transit Authority, 2015			
Service Area			
Square Miles	866		
Population	479,329		
Key Data			
Annual Passenger Miles	12,770,370		
Annual Unlinked Trips*	4,122,390		
Average Weekday Unlinked Trips*	13,478		
Average Saturday Unlinked Trips*	7,794		
Average Sunday Unlinked Trips*	2,099		
Annual Vehicle Revenue Miles	3,143,942		
Annual Vehicle Revenue Hours	243,587		
Vehicles Operated in Maximum Service	104		
Vehicles Available for Maximum Service	127		
# of Electric Buses	6		
# of Clean Diesel Buses	29		
# of Hybrid Diesel-Electric Buses	17		

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

Source: Central Massachusetts Regional Planning Commission and Worcester Regional Transit Authority. *Passengers are counted each time they board a vehicle no matter how many vehicles used to arrive at destination.

MBTA Commuter Rail, December 2015			
Inbound Trains (Weekday)	20		
Outbound Trains (Weekday)	20		
Inbound Trains (Weekend & Holiday)	9		
Outbound Trains (Weekend & Holiday)	9		
Typical Weekday Inbound Boardings: Union Station	1,475*		

Source: Massachusetts Bay Transportation Authority. *2013 Data.

In May 2016, a roundtrip non-stop express train between Worcester and Boston will begin that is expected to provide service between the two cities in less than an hour.

Worcester Regional Airport/ORH, 2015				
Aircraft Operations	Daily Average			
Transient General Aviation	55%			
Local General Aviation	37%			
Air Taxi	2%			
Commercial	3%			
Military	2%			
Daily Commercial Departures	2			
Jet Blue	Orlando & Fort Lauderdale, FL			
Aircraft Based at Field	74			
Single Engine Planes	69			
Multi-Engine Planes	5			

Source: Massachusetts Port Authority.



Worcester: Taxi and Livery Service, 2015				
Taxi Medallions	110			
Taxi Drivers	306			
Livery Owners	165			
Livery Drivers	203			

Source: Worcester Police Department.

Location	Average Annual Daily Traffic Count
I-290 above Washington Square	133,329
I-290 above College Square	98,877
I-190 at I-290 (2014)	73,122
I-90 & I-290 Interchange (All Directions)	28,703
Belmont Street at Lake Avenue (2014 Count)	31,342
I-290 Exit 13 (Kelley Square) (All Directions) (2014)	29,587
Belmont Street at Lincoln Square	26,326
I-90 & Rt. 146 Interchange (All Directions) (2014)	24,549
Park Avenue at Chandler Street	19,821
Pleasant Street at South Flagg Street	16,039
Grafton Street at Sunderland Road	15,336
I-90 & Rt. 122 Interchange (All Directions)	14,997
Plantation Street at Boylston Street	14,643
Salisbury Street at Park Avenue	13,781
West Boylston Street at West Mountain Street	11,436
Mill Street at Chandler Street	9,912
Main Street at Cambridge Street	13,775
Green Street at Winter Street (2014)	8,427
Airport Drive at Mill Street	5,784
Pleasant Street at Park Ave.	10,609
Pleasant Street at Highland Ave.	15,337

 $Source:\ Mass a chusetts\ Department\ of\ Transportation.$



Arts, Culture, & Sports



Worcester Almanac: Arts, Culture, & Sports

Worcester: Bravehearts Baseball, 2015					
Wins	Losses	Percentage	Awards		
30	31	0.492	2015 Futures Collegiate Baseball League Champions (Second consecutive year)		

Attendance

The team broke the single-game attendance record at Hanover Insurance Park on June 9th with 4,091 fans and again on August 7th with 4,240 fans. The team finished 12th in the country in average nightly attendance among summer collegiate teams with 2,107 fans.

Worcester Cultural Coalition—In 2015, the Worcester Cultural Coalition consisted of the City of Worcester and 71 cultural organizations in Greater Worcester. Coalition partners drew over 2.7 million visitors to the region in 2015. Visitor programs include the WOO Card, with 5,899 college members and 6,475 public members. Worcester's new WOO Pass application has been downloaded 1,975 times. Coalition members are:

- 4th Wall Stage Company
- A Worcester Schubertiad
- African Arts Education/Crocodile Music
- All Saints Church
- American Antiquarian Society
- Art in the Park, Worcester
- Artist Group of the Sprinkler Factory
- Arts Transcending Borders
- ArtsWorcester
- Assumption College Dept. of Art, Music & Theatre
- Assumption College HumanArts
- Audio Journal
- Calliope Productions
- Canal District Alliance, Inc.
- Clark Arts
- College of the Holy Cross
- EcoTarium
- First Congregational Church
- First Night Worcester
- Friends of Hope Cemetery
- Institute for Latino Art and Culture @ Centro
- International Center of Worcester
- Iris & B. Gerald Cantor Art Gallery, Holy Cross
- Joy of Music Program
- Mass Audubon Broad Meadow Brook
- Massachusetts Symphony
- Master Singers of Worcester
- Mechanics Hall
- Museum of Russian Icons
- Music at Trinity Lutheran Church
- Music Worcester
- Old Sturbridge Village
- Pakachoag Music School
- Park Spirit
- Preservation Worcester
- Regional Environmental Council

- Salisbury Singers, Inc.
- Seven Hills Symphony
- Southeast Asian Coalition
- St. Mary's Assumption Albanian Orthodox Church
- St. Spyridon Grecian Festival
- stART on the Street
- The Hanover Theatre for the Performing Arts
- Tower Hill Botanic Garden
- Tuckerman Hall
- ValleyCAST
- Veterans, Inc.
- VSA Massachusetts
- WCCA TV 13
- WCUW
- West Boylston Arts Foundation
- WICN Public Radio
- Worcester Art Museum
- Worcester Artist Group
- Worcester Arts Council
- Worcester Caribbean American Carnival Association
- Worcester Center for Crafts
- Worcester Chamber Music Society
- Worcester Chapter American Guild of Organists
- Worcester Children's Chorus
- Worcester County Light Opera Company
- Worcester County Poetry Association
- Worcester Historical Museum
- Worcester Inter-Tribal Indian Center
- Worcester Jewish Community Center
- Worcester Public Library
- Worcester Shakespeare Company
- Worcester State University
- Worcester Women's History Project
- Worcester Youth Orchestra
- WPI Humanities and Arts

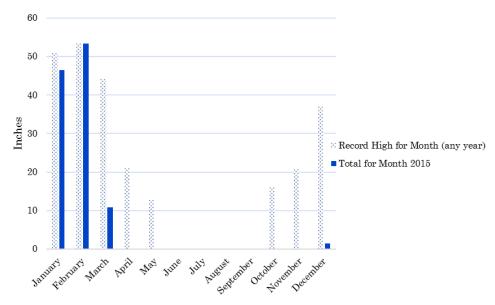


Weather



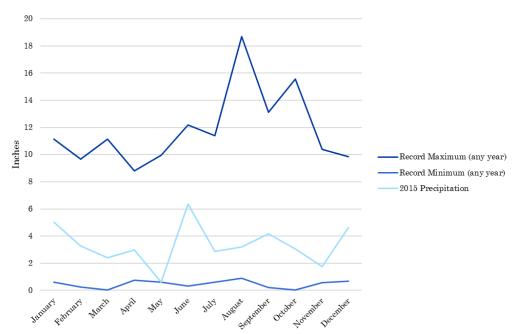
Worcester Almanac: Weather

Worcester: Snowfall & Record High by Month, 2015



Source: National Oceanic & Atmospheric Administration.

Worcester: Precipitation & Record High and Low by Month, 2015

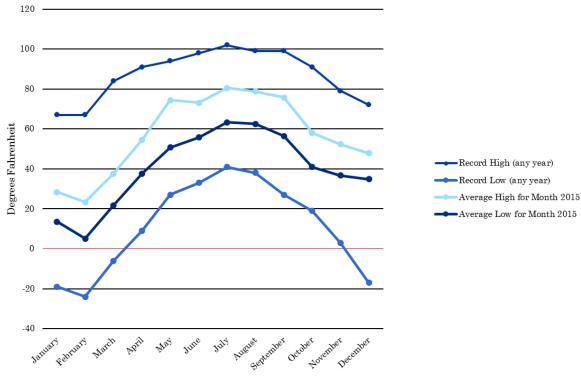


Source: National Oceanic & Atmospheric Administration.



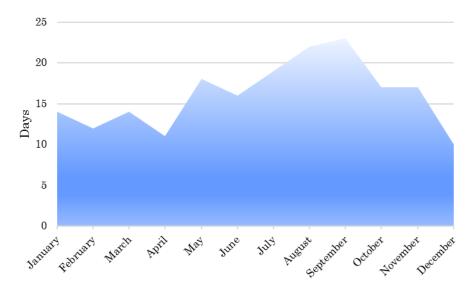
Worcester Almanac: Weather

Worcester: Average High and Low Temperatures Compared to Record, 2015



Source: National Oceanic & Atmospheric Administration.

Worcester: Number of Clear Days, 2015



Source: National Oceanic & Atmospheric Administration.

Worcester Regional Research Bureau, Inc.

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