

# VACCINATION DATA REPORT

Worcester

Friday, July 16, 2021

# Worcester - Benchmarks

## Vaccine Administration

1. The per-capita dose administration rate (total doses) in **Worcester** and whether they have met or exceeded the overall statewide average
2. The percentage of **Worcester** that has received a **First Dose** and whether they have met or exceeded the overall statewide average
  - The percentage of each **Age groups** that has received a **First Dose** of vaccine and whether they have met or exceeded the age -specific statewide averages for each age group.
  - The percentage of each **Sex and Race/Ethnicity groups** that has received a **First Dose** of vaccine and whether they have met or exceeded the overall statewide average.
3. The percentage of **Worcester** that has been **Partially and Fully Vaccinated** and whether they have met or exceeded the statewide average
  - The percentage of each **Age groups** that has been **Partially and Fully Vaccinated** and whether they have met or exceeded the **age-specific statewide averages** for each Age group.
  - The percentage of each **Sex and Race/Ethnicity groups** that has been **Partially and Fully Vaccinated** and whether they have met or exceeded the overall state averages.

## Communities with highest COVID-19 burden

1. Decrease COVID-19 Incidence in **Worcester** based on the average daily incidence per 100,000 (as published in the Daily Interactive COVID -19 dashboard).

# Vaccination Definitions

1. First Dose– Anyone who has received any vaccine (at least the 1st dose of Moderna/Pfizer vaccine or Johnson & Johnson vaccine)
2. Partially Vaccinated – Anyone who has received only the 1st dose of Moderna/Pfizer vaccine
3. Fully Vaccinated – Anyone who has received the 2nd dose of Moderna/Pfizer or Johnson & Johnson Vaccine

# VACCINE ADMINISTRATION

# Total Doses and Dose Administration Rate/100,000 Population for Worcester Compared to Statewide as of 7/14/2021

## Vaccine Administration Benchmark

- Per-capita dose administration rate for Worcester compared to the overall state rate of **125,628.1 per 100,000**.
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN	Grand Total Doses Administered	Administered Rate per 100K
▼ Worcester	205,202	107,113.3
MA Statewide	8,749,218	125,628.1

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.  
Data Current as of 7/14/2021

Note: This does not include administered vaccines through Veterans Affairs (VA), Indian Health Services (IHS). This data includes nursing homes that have be vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and Correctional Facilities.

# Count and Percentage of Population for First Dose, Partially, and Fully Vaccinated for Worcester Compared to Statewide as of 7/14/2021

## Vaccine Administration Benchmark

- Percentage of Worcester that has received a **First Dose** of vaccine and whether the community has met or exceeded the statewide average of **68.2%**.
- Percentage of Worcester that is **Partially Vaccinated** and whether they have met or exceeded the state average of **6.6%**.
- The percentage of Worcester that is **Fully Vaccinated** and whether they have met or exceeded the state average of **61.5%**.
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN ▼	First Dose ^	% of Community with First Dose
Worcester	113,476	59.2%
MA Statewide	4,746,890	68.2%

TOWN ▼	Partailly Vaccinated ^^	% of Community, Partially Vaccinated	Fully Vaccinated ^^^	% of Community, Fully Vaccinated
Worcester	14,648	7.6%	98,828	51.6%
MA Statewide	462,734	6.6%	4,284,156	61.5%

Data Current as of 7/14/2021

^First Dose: Anyone who has received any vaccine (1st dose of Moderna/Pfizer vaccine or Johnson & Johnson vaccine)

^^Partially Vaccinated: Anyone who has received only the 1st dose of Moderna/Pfizer vaccine

^^^Fully Vaccinated: Anyone who has received the 2nd dose of Moderna/Pfizer or Johnson & Johnson Vaccine

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health. Percentage calculations may be > 100% due to differences in data sources for population denominators and vaccination data.

Note: This does not include administered vaccines through Veterans Affairs (VA), Indian Health Services (IHS). This data includes nursing homes that have be vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and Correctional Facilities.

## FIRST DOSE

Anyone who has received any vaccine (at least the 1st dose of Moderna/Pfizer or Johnson & Johnson)

# Counts and Percentages of Population with a First Dose by Demographics for Worcester Compared to Statewide as of 7/14/2021

## Vaccine Administration Benchmark

- Percentage by **Age Group** with a **First Dose** and whether they have met or exceeded the statewide age-specific group average of:
  - 63.3%** for ages 0-64
  - 92.8%** for ages 65-74
  - 90.9%** for ages 75+
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN	0-64 Years, Count	0 - 64 Years, % of Population	65-74 Years, Count	65 - 74 Years, % of Population	75+ Years, Count	75+ Years, % of Population
▼						
Worcester	90,333	54.0%	13,639	97.2%	9,504	93.1%
MA Statewide	3,664,744	63.3%	633,655	92.8%	448,491	90.9%

Data Current as of 7/14/2021  
Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.  
For populations <50,000 dose counts, 1-29 cases are reported as such or are suppressed for confidentiality purposes. Percentages are not calculated for suppressed counts. Percentage calculations may be > 100% due to differences in data sources for population denominators and vaccination data.  
Note: This does not include administered vaccines through Veterans Affairs (VA), Indian Health Services (IHS). This data includes nursing homes that have been vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and Correctional Facilities.



# Counts and Percentages of Population with a First Dose by Demographics for Worcester Compared to Statewide as of 7/14/2021 contd.

## Vaccine Administration Benchmark

- The percentage of **Sex and Race/Ethnicity groups** that have received a **First Dose** of vaccine and whether they have or exceeded the overall state average of **68.2%**.
- Groups that have met or exceeded the overall statewide average are shaded blue.

Sex and Dose	Female, First Dose		Male, First Dose		Unknown/Undifferentiated, First Dose	
TOWN	Count	% of Population	Count	% of Population	Count	% of Population
▼ Worcester	60,323	61.8%	52,592	56.0%	561	
MA Statewide	2,529,894	70.6%	2,178,131	64.4%	38,865	

Race/Ethnicity and Dose	American Indian/Alaska Native nH/nL, First Dose		Asian nH/nL, First Dose		Black nH/nL, First Dose		Hispanic/Latinx, First Dose		Multiple Races nH/nL, First Dose		Native Hawaiian/Pacific Islander nH/nL, First Dose		Other nH/nL, First Dose		White nH/nL, First Dose	
TOWN	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population
▼ Worcester	167	40.5%	9,407	64.7%	12,402	42.8%	22,003	42.8%	2,298	42.2%	55	99.8%	4,826		56,969	62.3%
MA Statewide	5,129	44.0%	333,892	67.7%	260,749	51.2%	426,730	49.7%	108,903	85.1%	2,600	96.5%	180,817		3,187,348	64.3%

Data Current as of 7/14/2021

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.

For populations <50,000 dose counts, 1-29 cases are reported as such or are suppressed for confidentiality purposes. Percentages are not calculated for suppressed counts. Percentages are not calculated for Other and Unknown denominators. Percentage calculations may be > 100% due to differences in data sources for population denominators and vaccination data.

\*Other includes individuals that are reported as Other. Some large vaccination sites report race/ethnicity as "Other." \*\*Missing/Unknown is defined on page 16.

nH/nL = Non – Hispanic/Non-Latinx;

Note: This does not include administered vaccines through Veterans Affairs (VA), Indian Health Services (IHS). This data includes nursing homes that have be vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and Correctional Facilities.

## PARTIALLY VACCINATED

Anyone who has received only the 1st dose of Moderna/Pfizer Vaccine

# Counts and Percentages of Population Partially Vaccinated by Demographics for Worcester Compared to Statewide as of 7/14/2021

## Vaccine Administration Benchmark

- Percentage by **Age Group** who are **Partially Vaccinated** and whether they have met or exceeded the statewide age-specific groups average of:
  - 6.5%** for ages 0-64
  - 6.8%** for ages 65-74
  - 8.1%** for ages 75+
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN	0-64 Years, Count	0 - 64 Years, % of Population	65 -74 Years, Count	65 - 74 Years, % of Population	75+ Years, Count	75+ Years, % of Population
▲ Worcester	12,561	7.5%	1,212	8.6%	875	8.6%
MA Statewide	376,429	6.5%	46,443	6.8%	39,862	8.1%

Data Current as of 7/14/2021  
Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.  
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Note: This does not include administered vaccines through Veterans Affairs (VA), Indian Health Services (IHS). This data includes nursing homes that have be vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and Correctional Facilities.

# Counts and Percentages of Population Partially Vaccinated by Demographics for Worcester Compared to Statewide as of 7/14/2021 contd.

## Vaccine Administration Benchmark

- Percentage of **Sex and Race/Ethnicity groups** that have been **Partially Vaccinated** and whether they have met or exceeded the overall state average of **6.6%** .
- Groups that have met or exceeded the overall statewide average are shaded blue.

Sex and Dose	Female, Partially Vaccinated		Male, Partially Vaccinated		Unknown/Undifferentiated, Partially Vaccinated	
TOWN	Count	% of Population	Count	% of Population	Count	% of Population
Worcester	7,565	7.8%	6,971	7.4%	112	
MA Statewide	232,972	6.5%	215,488	6.4%	14,274	

Race/Ethnicity and Dose	American Indian/Alaska Native nH/nL, Partially Vaccinated		Asian nH/nL, Partially Vaccinated		Black nH/nL, Partially Vaccinated		Hispanic/Latinx, Partially Vaccinated		Multiple Races nH/nL, Partially Vaccinated		Native Hawaiian/Pacific Islander nH/nL, Partially Vaccinated		Other nH/nL, Partially Vaccinated		White nH/nL, Partially Vaccinated	
TOWN	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population
Worcester	(1-29)		1,165	8.0%	2,117	7.3%	3,993	7.8%	220	4.0%	(1-29)		869		4,857	5.3%
MA Statewide	802	6.9%	29,253	5.9%	33,229	6.5%	56,946	6.6%	7,022	5.5%	374	13.9%	27,584		244,633	4.9%

Data Current as of 7/14/2021

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.

For populations <50,000 dose counts, 1-29 cases are reported as such or are suppressed for confidentiality purposes. Percentages are not calculated for suppressed counts. Percentages are not calculated for Other and Unknown denominators. Percentage calculations may be > 100% due to differences in data sources for population denominators and vaccination data.

\*Other includes individuals that are reported as Other. Some large vaccination sites report race/ethnicity as "Other." \*\*Missing/Unknown is defined on page 16.

nH/nL = Non – Hispanic/Non-Latinx;

Note: This does not include administered vaccines through Veterans Affairs (VA), Indian Health Services (IHS). This data includes nursing homes that have be vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and Correctional Facilities.

# FULLY VACCINATED

Anyone who has received the 2nd dose of Moderna/Pfizer or Johnson & Johnson Vaccine

# Counts and Percentages of Population Fully Vaccinated by Demographics for Worcester Compared to Statewide as of 7/14/2021

## Vaccine Administration Benchmark

- Percentage by **Age Group** who are **Fully Vaccinated** and whether they have met or exceeded the statewide age-specific group average of:
  - **56.8% for** ages 0-64
  - **86.0% for** ages 65-74
  - **82.8% for** ages 75+
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN	0-64 Years, Count	0 - 64 Years, % of Population	65-74 Years, Count	65 -74 Years, % of Population	75+ Years, Count	75+ Years, % of Population
▼ Worcester	77,772	46.5%	12,427	88.6%	8,629	84.6%
MA Statewide	3,288,315	56.8%	587,212	86.0%	408,629	82.8%

Data Current as of 7/14/2021  
Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.  
For populations <50,000 dose counts, 1-29 cases are reported as such or are suppressed for confidentiality purposes. Percentages are not calculated for suppressed counts. Percentage calculations may be > 100% due to differences in data sources for population denominators and vaccination data.  
Note: This does not include administered vaccines through Veterans Affairs (VA), Indian Health Services (IHS). This data includes nursing homes that have been vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and Correctional Facilities.

# Counts and Percentages of Population Fully Vaccinated by Demographics for Worcester Compared to Statewide as of 7/14/2021 contd.

## Vaccine Administration Benchmark

- Percentage of **Sex and Race/Ethnicity groups** that have been **Fully Vaccinated** and whether they have met or exceeded the overall state average of **61.5%** .
- Groups that have met or exceeded the overall statewide average are shaded blue.

Sex and Dose	Female, Fully Vaccinated		Male, Fully Vaccinated		Unknown/Undifferentiated, Fully Vaccinated	
TOWN	Sex Count	% of Population	Sex Count	% of Population	Sex Count	% of Population
▼ Worcester	52,758	54.1%	45,621	48.5%	449	
MA Statewide	2,296,922	64.1%	1,962,643	58.0%	24,591	

Race/Ethnicity and Dose	American Indian/Alaska Native nH/nL, Fully Vaccinated		Asian nH/nL, Fully Vaccinated		Black nH/nL, Fully Vaccinated		Hispanic/Latinx, Fully Vaccinated		Multiple Races nH/nL, Fully Vaccinated		Native Hawaiian/Pacific Islander nH/nL, Fully Vaccinated		Other nH/nL, Fully Vaccinated		White nH/nL, Fully Vaccinated	
TOWN	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population	Count	% of Population
▼ Worcester	145	35.1%	8,242	56.7%	10,285	35.5%	18,010	35.0%	2,078	38.1%	43	78.0%	3,957		52,112	57.0%
MA Statewide	4,327	37.2%	304,639	61.8%	227,520	44.7%	369,784	43.0%	101,881	79.6%	2,226	82.6%	153,233		2,942,715	59.4%

Data Current as of 7/14/2021

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.

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\*Other includes individuals that are reported as Other. Some large vaccination sites report race/ethnicity as "Other." \*\*Missing/Unknown is defined on page 16.

nH/nL = Non – Hispanic/Non-Latinx;

Note: This does not include administered vaccines through Veterans Affairs (VA), Indian Health Services (IHS). This data includes nursing homes that have be vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and Correctional Facilities.

# Count and Percentage of Missing Race/Ethnicity for First Dose, Partial and Full Vaccinations for Worcester Compared to Statewide as of 7/14/2021

TOWN	Missing, First Dose	% of Missing, First Dose	Missing, Partially Vaccinated	% of Missing, Partially Vaccinated	Missing, Fully Vaccinated	% of Missing, Fully Vaccinated
▼						
Worcester	5,349	4.7%	1,393	9.5%	3,956	4.0%
MA Statewide	240,722	5.1%	62,891	13.6%	177,831	4.2%

Data Current as of 7/14/2021

1. Information on race and ethnicity is collected and reported by laboratories, healthcare providers and local boards of health and may or may not reflect self-report by the individual case. 2. If no information is provided by any reporter on a case's race or ethnicity, DPH classifies it as missing. 3. A classification of unknown indicates the reporter did not know the race and ethnicity of the individual, the individual refused to provide information, or that the originating system does not capture the information.

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health. Percentage calculations may be > 100% due to differences in data sources for population denominators and vaccination data.

Note: This does not include administered vaccines through Veterans Affairs (VA), Indian Health Services (IHS). This data includes nursing homes that have been vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and Correctional Facilities.



# Communities COVID -19 Burden

# COVID-19 Case Counts and Rates for 20 Prioritized Communities

## City/Towns with highest burden

- Decrease COVID-19 Incidence in the City/Towns based on average daily incidence per 100,000 (daily interactive COVID-19 dashboard)

Community	Total Case Counts (12/24/2020)	Two Week Case Counts (12/24/2020)	Average Daily Incidence Rate per 100,000 (12/24/2020)	Total Case Counts (7/15/2021)	Two Week Case Counts (7/15/2021)	Average Daily Incidence Rate per 100,000 (7/15/2021)
Boston	36,686	5,732	59.1	71,207	157	1.6
Brockton	8,013	987	71.0	14,228	28	2.0
Chelsea	5,880	707	136.8	8,909	11	2.1
Everett	4,930	808	118.9	8,640	7	1.0
Fall River	7,079	1,296	103.6	14,351	23	1.8
Fitchburg	2,522	476	80.7	4,812	5	0.8
Framingham	4,681	723	69.4	8,362	9	0.9
Haverhill	4,217	901	97.6	8,348	20	2.2
Holyoke	2,770	414	72.8	5,737	<5	0.4
Lawrence	12,568	2,116	172.3	20,400	30	2.4
Leominster	2,541	573	101.4	5,013	9	1.6
Lowell	9,844	1,966	120.9	17,701	30	1.8
Lynn	10,212	1,758	124.5	17,441	28	2.0
Malden	3,676	718	75.8	7,230	11	1.2
Methuen	4,154	909	120.6	7,670	17	2.3
New Bedford	6,943	1,413	100.9	14,872	44	3.1
Randolph	2,075	325	67.4	4,235	14	2.9
Revere	6,188	1,151	135.1	10,828	6	0.7
Springfield	10,159	1,837	84.0	22,303	54	2.5
Worcester	13,435	2,295	85.6	23,930	47	1.8
MA Statewide	322,652	61,603	63.2	665,296	1350	1.4

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.

Data Current as of 7/15/2021 from MA weekly vaccination dashboard, <https://www.mass.gov/info-details/massachusetts-covid-19-vaccination-data-and-updates#weekly-covid-19-vaccination-dashboard->

# Profile of Worcester by Race/Ethnicity

TOWN	Total Pop	American Indian/Alaska Native nH/nL	% of Population, American Indian/Alaska Native, nH/nL	Asian nH/nL	% of Population, Asian, nH/nL	Black nH/nL	% of Population, Black, nH/nL	Hispanic /Latinx	% of Population , Hispanic/L atinx	Multiple Races nH/nL	% of Population, Multiple Races, nH/nL	Native Hawaiian/ Pacific Islander nH/nL	% of Population, Native Hawaiian/ Pacific Islander, nH/nL	White nH/nL	% of Population, White, nH/nL
▼ Worcester	191,575	413	0.2%	14,549	7.6%	28,978	15.1%	51,464	26.9%	5,452	2.8%	55	0.0%	91,403	47.7%
MA Statewide	6,964,383	11,644	0.2%	492,858	7.1%	509,228	7.3%	859,095	12.3%	128,005	1.8%	2,695	0.0%	4,955,521	71.2%

Population percentage calculations provided by UMass Donahue Inst. based on Strate S, et al. Small Area Population Estimates for 2011 through 2020, published March 2020 (original report published Oct 2016)

Percentages for Other and Unknown were not calculated due to unknown denominators.

nH/nL = Non – Hispanic/Non-Latinx