

# VACCINATION DATA REPORT

Worcester

Friday, July 2, 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 age -specific statewide averages for each age group.
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 6/30/2021

## Vaccine Administration Benchmark

- Per-capita dose administration rate for Worcester compared to the overall state rate of **123,802.3 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	200,557	104,688.7
MA Statewide	8,622,067	123,802.3

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 6/30/2021  
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.

# Count and Percentage of Population for First Dose, Partially, and Fully Vaccinated for Worcester Compared to Statewide as of 6/30/2021

## 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 **67.3%**.
- Percentage of Worcester that is **Partially Vaccinated** and whether they have met or exceeded the state average of **6.9%**.
- The percentage of Worcester that is **Fully Vaccinated** and whether they have met or exceeded the state average of **60.4%**.
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN ▼	First Dose ^	% of Community with First Dose
Worcester	111,492	58.2%
MA Statewide	4,689,586	67.3%

TOWN ▼	Partailly Vaccinated ^^	% of Community, Partially Vaccinated	Fully Vaccinated ^^^	% of Community, Fully Vaccinated
Worcester	15,470	8.1%	96,022	50.1%
MA Statewide	481,258	6.9%	4,208,328	60.4%

Data Current as of 6/30/2021

^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 6/30/2021

## 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:
  - 62.4%** for ages 0-64
  - 92.4%** for ages 65-74
  - 90.7%** 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	88,440	52.9%	13,570	96.7%	9,482	92.9%
MA Statewide	3,611,134	62.4%	631,158	92.4%	447,294	90.7%

Data Current as of 6/30/2021  
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 6/30/2021 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 **67.3%**.
- 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	59,363	60.8%	51,555	54.8%	574	
MA Statewide	2,500,858	69.8%	2,149,483	63.6%	39,245	

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	161	39.0%	9,285	63.8%	12,041	41.6%	21,454	41.7%	2,215	40.6%	53	96.2%	4,691		56,294	61.6%
MA Statewide	5,020	43.1%	329,471	66.8%	253,693	49.8%	416,435	48.5%	106,753	83.4%	2,558	94.9%	177,545		3,157,795	63.7%

Data Current as of 6/30/2021

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 6/30/2021

## 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:
  - **6.8%** for ages 0-64
  - **6.9%** for ages 65-74
  - **8.2%** 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	13,331	8.0%	1,255	8.9%	884	8.7%
MA Statewide	393,413	6.8%	47,420	6.9%	40,425	8.2%

Data Current as of 6/30/2021  
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 been 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 6/30/2021 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 **6.9%** .
- 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	7,997	8.2%	7,357	7.8%	116	
MA Statewide	242,028	6.8%	224,711	6.6%	14,519	

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)		1,224	8.4%	2,232	7.7%	4,267	8.3%	224	4.1%	(1-29)		882		5,152	5.6%
MA Statewide	849	7.3%	30,885	6.3%	34,641	6.8%	60,531	7.0%	7,688	6.0%	372	13.8%	27,686		254,093	5.1%

Data Current as of 6/30/2021

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 6/30/2021

## 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:
  - **55.6% for** ages 0-64
  - **85.5% for** ages 65-74
  - **82.5% 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	75,109	44.9%	12,315	87.8%	8,598	84.3%
MA Statewide	3,217,721	55.6%	583,738	85.5%	406,869	82.5%

Data Current as of 6/30/2021  
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 6/30/2021 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 **60.4%** .
- 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	51,366	52.6%	44,198	47.0%	458	
MA Statewide	2,258,830	63.0%	1,924,772	56.9%	24,726	

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	136	33.0%	8,061	55.4%	9,809	33.8%	17,187	33.4%	1,991	36.5%	42	76.2%	3,809		51,142	56.0%
MA Statewide	4,171	35.8%	298,586	60.6%	219,052	43.0%	355,904	41.4%	99,065	77.4%	2,186	81.1%	149,859		2,903,702	58.6%

Data Current as of 6/30/2021

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.

# Count and Percentage of Missing Race/Ethnicity for First Dose, Partial and Full Vaccinations for Worcester Compared to Statewide as of 6/30/2021

TOWN	Missing, First Dose	% of Missing, First Dose	Missing, Partially Vaccinated	% of Missing, Partially Vaccinated	Missing, Fully Vaccinated	% of Missing, Fully Vaccinated
▼						
Worcester	5,298	4.8%	1,453	9.4%	3,845	4.0%
MA Statewide	240,316	5.1%	64,513	13.4%	175,803	4.2%

Data Current as of 6/30/2021

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 (7/1/2021)	Two Week Case Counts (7/1/2021)	Average Daily Incidence Rate per 100,000 (7/1/2021)
Boston	36,686	5,732	59.1	71,018	84	0.9
Brockton	8,013	987	71.0	14,198	24	1.7
Chelsea	5,880	707	136.8	8,900	13	2.5
Everett	4,930	808	118.9	8,634	8	1.2
Fall River	7,079	1,296	103.6	14,323	32	2.6
Fitchburg	2,522	476	80.7	4,807	7	1.2
Framingham	4,681	723	69.4	8,354	8	0.8
Haverhill	4,217	901	97.6	8,331	33	3.6
Holyoke	2,770	414	72.8	5,735	7	1.2
Lawrence	12,568	2,116	172.3	20,369	33	2.7
Leominster	2,541	573	101.4	5,007	10	1.8
Lowell	9,844	1,966	120.9	17,674	40	2.5
Lynn	10,212	1,758	124.5	17,414	33	2.3
Malden	3,676	718	75.8	7,217	12	1.3
Methuen	4,154	909	120.6	7,652	6	0.8
New Bedford	6,943	1,413	100.9	14,822	20	1.4
Randolph	2,075	325	67.4	4,225	14	2.9
Revere	6,188	1,151	135.1	10,817	20	2.3
Springfield	10,159	1,837	84.0	22,248	44	2.0
Worcester	13,435	2,295	85.6	23,884	39	1.5
MA Statewide	322,652	61,603	63.2	663,822	949	1.0

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 7/1/2021 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