

# VACCINATION DATA REPORT

## Worcester

Friday, May 28, 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 risk levels from red towards grey 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 (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 5/26/2021

## Vaccine Administration Benchmark

- Per-capita dose administration rate for Worcester compared to the overall state rate of **109,628.7 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	169,384	88,416.7
MA Statewide	7,634,963	109,628.7

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 5/26/2021  
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 5/26/2021

## 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 **62.6%**.
- Percentage of Worcester that is **Partially Vaccinated** and whether they have met or exceeded the state average of **12.0%**.
- The percentage of Worcester that is **Fully Vaccinated** and whether they have met or exceeded the state average of **50.5%**.
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN ▼	First Dose ^	% of Community with First Dose
Worcester	100,236	52.3%
MA Statewide	4,359,030	62.6%

TOWN ▼	Partailly Vaccinated ^^	% of Community, Partially Vaccinated	Fully Vaccinated ^^^	% of Community, Fully Vaccinated
Worcester	24,891	13.0%	75,345	39.3%
MA Statewide	838,955	12.0%	3,520,075	50.5%

Data Current as of 5/26/2021

^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 (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 5/26/2021

## 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:
  - **57.0% for** ages 0-64
  - **90.6% for** ages 65-74
  - **89.4% 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	77,764	46.5%	13,167	93.8%	9,305	91.2%
MA Statewide	3,299,552	57.0%	618,493	90.6%	440,985	89.4%

Data Current as of 5/26/2021  
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 5/26/2021 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 **62.6%**.
- 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	53,756	55.1%	45,911	48.8%	569	
MA Statewide	2,339,347	65.3%	1,980,622	58.6%	39,061	

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	147	35.6%	8,475	58.3%	10,173	35.1%	17,783	34.6%	1,759	32.3%	49	88.9%	4,307		52,627	57.6%
MA Statewide	4,594	39.5%	303,218	61.5%	222,906	43.8%	352,706	41.1%	94,065	73.5%	2,387	88.6%	165,074		2,986,048	60.3%

Data Current as of 5/26/2021

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 5/26/2021

## 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:
  - **12.6%** for ages 0-64
  - **9.2%** for ages 65-74
  - **9.3%** 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	22,056	13.2%	1,765	12.6%	1,070	10.5%
MA Statewide	730,073	12.6%	62,953	9.2%	45,929	9.3%

Data Current as of 5/26/2021  
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 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 5/26/2021 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 **12.0%**.
- 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	12,587	12.9%	12,168	12.9%	136	
MA Statewide	412,543	11.5%	410,533	12.1%	15,879	

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	48	11.6%	2,407	16.5%	3,365	11.6%	6,324	12.3%	427	7.8%	(1-29)		1,120		9,471	10.4%
MA Statewide	1,328	11.4%	68,982	14.0%	52,049	10.2%	94,771	11.0%	18,023	14.1%	619	23.0%	37,677		488,663	9.9%

Data Current as of 5/26/2021

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 5/26/2021

## 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:
  - **44.4% for** ages 0-64
  - **81.4% for** ages 65-74
  - **80.1% 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	55,708	33.3%	11,402	81.3%	8,235	80.7%
MA Statewide	2,569,479	44.4%	555,540	81.4%	395,056	80.1%

Data Current as of 5/26/2021  
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 5/26/2021contd.

## 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 **50.5%** .
- 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	41,169	42.2%	33,743	35.9%	433	
MA Statewide	1,926,804	53.8%	1,570,089	46.4%	23,182	

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	99	24.0%	6,068	41.7%	6,808	23.5%	11,459	22.3%	1,332	24.4%	31	56.3%	3,187		43,156	47.2%
MA Statewide	3,266	28.0%	234,236	47.5%	170,857	33.6%	257,935	30.0%	76,042	59.4%	1,768	65.6%	127,397		2,497,385	50.4%

Data Current as of 5/26/2021

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 5/26/2021

TOWN	Missing, First Dose	% of Missing, First Dose	Missing, Partially Vaccinated	% of Missing, Partially Vaccinated	Missing, Fully Vaccinated	% of Missing, Fully Vaccinated
▼						
Worcester	4,916	4.9%	1,711	6.9%	3,205	4.3%
MA Statewide	228,032	5.2%	76,843	9.2%	151,189	4.3%

Data Current as of 5/26/2021

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 risk levels from red towards grey in the City/Towns with highest COVID risk based on average daily incidence per 100,000 (daily interactive COVID-19 dashboard)

Average Daily Incidence Rate per 100,000 Color Calculation

Group	Population		
	Under 10K	10K-50K	Over 50K
Grey	Less than or equal to 10 total cases	Less than or equal to 10 total cases	Less than or equal to 15 total cases
Green	Less than or equal to 15 total cases	<10 avg cases/100k AND >10 total cases	<10 avg cases/100k AND >15 total cases
Yellow	Less than or equal to 25 total cases	≥10 avg cases/100k OR ≥5% pos rate	≥10 avg cases/100k OR ≥4% pos rate
Red	More than 25 total cases	≥10 avg cases/100k AND ≥5% pos rate	≥10 avg cases/100k AND ≥4% pos rate

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 (5/27/2021)	Two Week Case Counts (5/27/2021)	Average Daily Incidence Rate per 100,000 (5/27/2021)
Boston	36,686	5,732	59.1	70599	572	5.9
Brockton	8,013	987	71.0	14075	211	15.2
Chelsea	5,880	707	136.8	8869	70	13.5
Everett	4,930	808	118.9	8607	52	7.7
Fall River	7,079	1,296	103.6	14202	168	13.4
Fitchburg	2,522	476	80.7	4771	47	8.0
Framingham	4,681	723	69.4	8298	79	7.6
Haverhill	4,217	901	97.6	8256	99	10.7
Holyoke	2,770	414	72.8	5702	50	8.8
Lawrence	12,568	2,116	172.3	20222	192	15.6
Leominster	2,541	573	101.4	4978	37	6.5
Lowell	9,844	1,966	120.9	17593	130	8.0
Lynn	10,212	1,758	124.5	17299	126	8.9
Malden	3,676	718	75.8	7160	45	4.8
Methuen	4,154	909	120.6	7620	100	13.3
New Bedford	6,943	1,413	100.9	14736	222	15.9
Randolph	2,075	325	67.4	4175	29	6.0
Revere	6,188	1,151	135.1	10757	84	9.9
Springfield	10,159	1,837	84.0	22064	309	14.1
Worcester	13,435	2,295	85.6	23706	166	6.2
MA Statewide	322,652	61,603	63.2	660,298	5,899	6.1

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 5/27/2021 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