

# VACCINATION DATA REPORT

## Worcester

Friday, April 30, 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 4/28/2021

## Vaccine Administration Benchmark

- Per-capita dose administration rate for Worcester compared to the overall state rate of **84,892.4 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	126,762	66,168.5
MA Statewide	5,912,233	84,892.4

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 4/28/2021  
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 4/28/2021

## 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 **52.9%**.
- Percentage of Worcester that is **Partially Vaccinated** and whether they have met or exceeded the state average of **17.9%**.
- The percentage of Worcester that is **Fully Vaccinated** and whether they have met or exceeded the state average of **35.0%**.
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN	First Dose ^	% of Community with First Dose
▼ Worcester	80,279	41.9%
MA Statewide	3,681,397	52.9%

TOWN	Partailly Vaccinated ^^	% of Community, Partially Vaccinated	Fully Vaccinated ^^^	% of Community, Fully Vaccinated
▼ Worcester	29,076	15.2%	51,203	26.7%
MA Statewide	1,245,310	17.9%	2,436,087	35.0%

Data Current as of 4/28/2021

^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 4/28/2021

## 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:
  - 45.9% for** ages 0-64
  - 86.9% for** ages 65-74
  - 86.9% 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	58,971	35.2%	12,357	88.1%	8,951	87.7%
MA Statewide	2,659,475	45.9%	593,116	86.9%	428,806	86.9%

Data Current as of 4/28/2021  
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 4/28/2021 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 **52.9%**.
- 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	44,172	45.3%	35,560	37.8%	547	
MA Statewide	2,018,686	56.3%	1,624,765	48.0%	37,946	

Race/Ethnicity and Dose	American Indian/Alaska Native NH, First Dose		Asian NH, First Dose		Black NH, First Dose		Hispanic, First Dose		Multi NH, First Dose		Native Hawaiian/Pacific Islander NH, First Dose		Other NH, First Dose		White NH, 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	111	26.9%	6,476	44.5%	7,408	25.6%	12,381	24.1%	1,278	23.4%	35	63.5%	3,692		44,713	48.9%
MA Statewide	3,696	31.7%	238,703	48.4%	175,556	34.5%	258,389	30.1%	74,250	58.0%	1,927	71.5%	144,028		2,588,132	52.2%

Data Current as of 4/28/2021

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 = Non – Hispanic; 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 4/28/2021

## 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:
  - **19.1%** for ages 0-64
  - **12.6%** for ages 65-74
  - **10.6%** 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	25,331	15.1%	2,461	17.5%	1,284	12.6%
MA Statewide	1,107,005	19.1%	86,004	12.6%	52,301	10.6%

Data Current as of 4/28/2021  
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 Partially Vaccinated by Demographics for Worcester Compared to Statewide as of 4/28/2021 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 **17.9%**.
- 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	14,572	14.9%	14,327	15.2%	177	
MA Statewide	616,521	17.2%	611,380	18.1%	17,409	

Race/Ethnicity and Dose	American Indian/Alaska Native NH, Partially Vaccinated		Asian NH, Partially Vaccinated		Black NH, Partially Vaccinated		Hispanic, Partially Vaccinated		Multi NH, Partially Vaccinated		Native Hawaiian/Pacific Islander NH, Partially Vaccinated		Other NH, Partially Vaccinated		White NH, 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%	3,326	22.9%	2,765	9.5%	5,514	10.7%	454	8.3%	(1-29)		1,103		14,238	15.6%
MA Statewide	1,540	13.2%	116,879	23.7%	56,791	11.2%	109,898	12.8%	27,363	21.4%	720	26.7%	46,880		800,717	16.2%

Data Current as of 4/28/2021  
 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 = Non – Hispanic; 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 4/28/2021

## 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:
  - 26.8%** for ages 0-64
  - 74.3%** for ages 65-74
  - 76.3%** 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	33,640	20.1%	9,896	70.5%	7,667	75.1%
MA Statewide	1,552,470	26.8%	507,112	74.3%	376,505	76.3%

Data Current as of 4/28/2021  
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 4/28/2021 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 **35.0%** .
- 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	29,600	30.3%	21,233	22.6%	370	
MA Statewide	1,402,165	39.1%	1,013,385	30.0%	20,537	

Race/Ethnicity and Dose	American Indian/Alaska Native NH, Fully Vaccinated		Asian NH, Fully Vaccinated		Black NH, Fully Vaccinated		Hispanic, Fully Vaccinated		Multi NH, Fully Vaccinated		Native Hawaiian/Pacific Islander NH, Fully Vaccinated		Other NH, Fully Vaccinated		White NH, 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	63	15.3%	3,150	21.7%	4,643	16.0%	6,867	13.3%	824	15.1%	(1-29)		2,589		30,475	33.3%
MA Statewide	2,156	18.5%	121,824	24.7%	118,765	23.3%	148,491	17.3%	46,887	36.6%	1,207	44.8%	97,148		1,787,415	36.1%

Data Current as of 4/28/2021

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 = Non – Hispanic; 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 4/28/2021

TOWN	Missing, First Dose	% of Missing, First Dose	Missing, Partially Vaccinated	% of Missing, Partially Vaccinated	Missing, Fully Vaccinated	% of Missing, Fully Vaccinated
▼						
Worcester	4,185	5.2%	1,614	5.6%	2,571	5.0%
MA Statewide	196,716	5.3%	84,522	6.8%	112,194	4.6%

Data Current as of 4/28/2021

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 (4/29/2021)	Two Week Case Counts (4/29/2021)	Average Daily Incidence Rate per 100,000 (4/29/2021)
Boston	36,686	5,732	59.1	68,951	1789	18.4
Brockton	8,013	987	71.0	13,537	393	28.3
Chelsea	5,880	707	136.8	8,707	217	42.0
Everett	4,930	808	118.9	8,460	184	27.1
Fall River	7,079	1,296	103.6	13,806	322	25.8
Fitchburg	2,522	476	80.7	4,631	142	24.1
Framingham	4,681	723	69.4	8,114	216	20.7
Haverhill	4,217	901	97.6	7,986	273	29.6
Holyoke	2,770	414	72.8	5,537	219	38.5
Lawrence	12,568	2,116	172.3	19,694	512	41.7
Leominster	2,541	573	101.4	4,857	111	19.6
Lowell	9,844	1,966	120.9	17,144	618	38.0
Lynn	10,212	1,758	124.5	16,981	338	23.9
Malden	3,676	718	75.8	7,019	191	20.2
Methuen	4,154	909	120.6	7,393	226	30.0
New Bedford	6,943	1,413	100.9	14,157	490	35.0
Randolph	2,075	325	67.4	4,067	109	22.6
Revere	6,188	1,151	135.1	10,560	247	29.0
Springfield	10,159	1,837	84.0	21,194	969	44.3
Worcester	13,435	2,295	85.6	23,238	603	22.5
MA Statewide	322,652	61,603	63.2	643,428	19,466	20.0

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 4/29/2021 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	% of Population, American Indian/Alaska Native, NH	Asian NH	% of Population, Asian, NH	Black NH	% of Population, Black, NH	Hispanic	% of Population, Hispanic	Multi NH	% of Population, Multi, NH	Native Hawaiian/Pacific Islander NH	% of Population, Native Hawaiian/Pacific Islander, NH	White NH	% of Population, White, NH
▼ 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 = Non – Hispanic