

# VACCINATION DATA REPORT

## Boston

Friday, April 23, 2021

# Boston - Benchmarks

## Vaccine Administration

1. **The per-capita dose administration rate (total doses) in Boston and whether they have met or exceeded the statewide rate**
2. **The percentage of Boston 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 **Race/Ethnicity groups and Sex** 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 Boston that has been Partially and Fully Vaccinated and whether they have met or exceeded the statewide averages**
  - 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 **Race/Ethnicity groups and Sex** 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 Boston based on the average daily incidence per 100,000 (as published in the weekly COVID -19 public health report).**

# 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 Boston Compared to Statewide as of 4/21/2021

## Vaccine Administration Benchmark

- Per-capita dose administration rate for Boston compared to the overall state rate of **76,144.7 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
Boston	495,722	71,537.1
MA Statewide	5,303,005	76,144.7

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 4/21/2021

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 Boston Compared to Statewide as of 4/21/2021

## Vaccine Administration Benchmark

- Percentage of Boston that has received a **First Dose** of vaccine and whether the community has met or exceeded the statewide average of **48.4%**.
- Percentage of Boston that is **Partially Vaccinated** and whether they have met or exceeded the state average of **17.7%**.
- The percentage of Boston that is **Fully Vaccinated** and whether they have met or exceeded the state average of **30.7%**.
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN ▲	First Dose ^	% of Community with First Dose
Boston	321,145	46.3%
MA Statewide	3,370,397	48.4%

TOWN ▲	Partially Vaccinated ^^	% of Community, Partially Vaccinated	Fully Vaccinated ^^^	% of Community, Fully Vaccinated
Boston	128,411	18.5%	192,734	27.8%
MA Statewide	1,234,262	17.7%	2,136,135	30.7%

Data Current as of 4/21/2021

^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 been 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 Boston Compared to Statewide as of 4/21/2021

## 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:
  - **40.8%** for ages 0-64
  - **85.4%** for ages 65-74
  - **86.1%** 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
▲ Boston	255,911	41.8%	38,485	81.1%	26,749	80.2%
MA Statewide	2,362,697	40.8%	583,127	85.4%	424,573	86.1%

Data Current as of 4/21/2021

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 Boston Compared to Statewide as of 4/21/2021 contd.

## Vaccine Administration Benchmark

- The percentage of **Race/Ethnicity groups and Sex** that have received a **first dose** of vaccine and whether they have or exceeded the overall state average of **48.4%**.
- 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
Boston	176,598	49.0%	141,538	42.5%	3,009	
MA Statewide	1,870,217	52.2%	1,462,936	43.3%	37,244	

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
Boston	391	26.9%	33,414	48.2%	51,858	33.6%	42,149	30.8%	8,577	55.2%	372	93.0%	14,504		154,014	50.1%
MA Statewide	3,300	28.3%	199,710	40.5%	161,095	31.6%	226,623	26.4%	66,043	51.6%	1,755	65.1%	135,073		2,393,998	48.3%

Data Current as of 4/21/2021

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 been 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 Boston Compared to Statewide as of 4/21/2021

## 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:
  - 18.5%** for ages 0-64
  - 15.4%** for ages 65-74
  - 11.3%** 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
▲ Boston	119,028	19.4%	6,011	12.7%	3,372	10.1%
MA Statewide	1,073,534	18.5%	104,882	15.4%	55,846	11.3%

Data Current as of 4/21/2021

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 Boston Compared to Statewide as of 4/21/2021 contd.

## Vaccine Administration Benchmark

- Percentage of **Race/Ethnicity groups and Sex** that have been **partially vaccinated** and whether they have met or exceeded the overall state average of **17.7%**.
- 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
Boston	65,456	18.2%	61,890	18.6%	1,065	
MA Statewide	621,343	17.3%	595,616	17.6%	17,303	

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
Boston	153	10.5%	14,825	21.4%	16,429	10.6%	19,325	14.1%	3,034	19.5%	108	27.0%	6,049		60,611	19.7%
MA Statewide	1,428	12.3%	100,203	20.3%	56,112	11.0%	104,801	12.2%	26,151	20.4%	698	25.9%	46,092		819,681	16.5%

Data Current as of 4/21/2021

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 been 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 Boston Compared to Statewide as of 4/21/2021

## 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:
  - 22.3%** for ages 0-64
  - 70.0%** for ages 65-74
  - 74.8%** 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
▲ Boston	136,883	22.4%	32,474	68.4%	23,377	70.1%
MA Statewide	1,289,163	22.3%	478,245	70.0%	368,727	74.8%

Data Current as of 4/21/2021

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 Fully Vaccinated by Demographics for Boston Compared to Statewide as of 4/21/2021 contd.

## Vaccine Administration Benchmark

- Percentage of **Race/Ethnicity groups and Sex** that have been **fully vaccinated** and whether they have met or exceeded the overall state average of **30.7%**.
- 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
▲ Boston	111,142	30.9%	79,648	23.9%	1,944	
MA Statewide	1,248,874	34.9%	867,320	25.6%	19,941	

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
▲ Boston	238	16.4%	18,589	26.8%	35,429	22.9%	22,824	16.7%	5,543	35.7%	264	66.0%	8,455		93,403	30.4%
MA Statewide	1,872	16.1%	99,507	20.2%	104,983	20.6%	121,822	14.2%	39,892	31.2%	1,057	39.2%	88,981		1,574,317	31.8%

Data Current as of 4/21/2021

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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# Missing Race/Ethnicity Count and Percentage of Population Vaccinated for Boston Compared to Statewide as of 4/21/2021

TOWN	Unknown, First Dose	% of Missing, First Dose	Unknown, Partially Vaccinated	% of Missing, Partially Vaccinated	Unknown, Fully Vaccinated	% of Missing, Fully Vaccinated
Boston	15,866	4.9%	7,877	6.1%	7,989	4.1%
MA Statewide	182,800	5.4%	79,096	6.4%	103,704	4.9%

Data Current as of 4/21/2021

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 (weekly COVID-19 public health report)

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 (4/22/2021)	Two Week Case Counts (4/22/2021)	Average Daily Incidence Rate per 100,000 (4/22/2021)
Boston	36,686	5,732	59.1	68190	2468	25.4
Brockton	8,013	987	71.0	13350	446	32.1
Chelsea	5,880	707	136.8	8610	227	43.9
Everett	4,930	808	118.9	8391	219	32.2
Fall River	7,079	1,296	103.6	13652	405	32.4
Fitchburg	2,522	476	80.7	4553	137	23.2
Framingham	4,681	723	69.4	8030	292	28.0
Haverhill	4,217	901	97.6	7879	311	33.7
Holyoke	2,770	414	72.8	5434	279	49.0
Lawrence	12,568	2,116	172.3	19461	575	46.8
Leominster	2,541	573	101.4	4807	103	18.2
Lowell	9,844	1,966	120.9	16872	766	47.1
Lynn	10,212	1,758	124.5	16825	413	29.3
Malden	3,676	718	75.8	6938	260	27.5
Methuen	4,154	909	120.6	7307	264	35.0
New Bedford	6,943	1,413	100.9	13899	517	36.9
Randolph	2,075	325	67.4	4005	125	25.9
Revere	6,188	1,151	135.1	10463	299	35.1
Springfield	10,159	1,837	84.0	20724	1068	48.8
Worcester	13,435	2,295	85.6	22999	729	27.2
MA Statewide	322,652	61,603	63.2	635045	24036	24.7

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 4/22/2021 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 Boston 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
▲ Boston	692,958	1,452	0.2%	69,263	10.0%	154,464	22.3%	136,847	19.7%	15,540	2.2%	400	0.1%	307,173	44.3%
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