

VACCINATION DATA REPORT

Boston

04/16/2021

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 or exceeded the overall state averages.
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 4/14/2021

Vaccine Administration Benchmark

- Per-capita dose administration rate for Boston compared to the overall state rate of **68,054.8 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	436,478	62,987.6
MA Statewide	4,739,598	68,054.8

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 4/14/2021

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 4/14/2021

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 **44.0%**.
- Percentage of Boston that is **Partially Vaccinated** and whether they have met or exceeded the state average of **17.1%**.
- The percentage of Boston that is **Fully Vaccinated** and whether they have met or exceeded the state average of **26.9%**.
- Groups that have met or exceeded the overall statewide average are shaded blue.

TOWN	First Dose	% of Community with First Dose
Boston	285,688	41.2%
MA Statewide	3,063,999	44.0%

TOWN	Partially Vaccinated	% of Community, Partially Vaccinated	Fully Vaccinated	% of Community, Fully Vaccinated
Boston	117,200	16.9%	168,488	24.3%
MA Statewide	1,188,683	17.1%	1,875,316	26.9%

^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.

Data Current as of 4/14/2021

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.

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 4/14/2021

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:
 - 35.8%** for ages 0-64
 - 83.4%** for ages 65-74
 - 85.1%** 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	221,488	36.2%	37,778	79.6%	26,422	79.2%
MA Statewide	2,074,688	35.8%	569,653	83.4%	419,658	85.1%

Data Current as of 4/14/2021

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.

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 4/14/2021 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 **44.0%**.
- 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	158,900	44.1%	123,894	37.2%	2,894	
MA Statewide	1,719,430	48.0%	1,308,243	38.7%	36,326	

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	352	24.2%	28,318	40.9%	47,972	31.1%	36,952	27.0%	7,703	49.6%	349	87.2%	13,034		137,222	44.7%
MA Statewide	2,931	25.2%	165,039	33.5%	146,734	28.8%	195,251	22.7%	58,039	45.3%	1,598	59.3%	126,095		2,199,312	44.4%

Data Current as of 4/14/2021

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 = 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 4/14/2021

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:
 - 17.2%** for ages 0-64
 - 19.2%** for ages 65-74
 - 12.2%** 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
Boston	106,095	17.3%	7,337	15.5%	3,768	11.3%
MA Statewide	997,233	17.2%	131,379	19.2%	60,071	12.2%

Data Current as of 4/14/2021
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.
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 Boston Compared to Statewide as of 4/14/2021 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 **17.1%**.
- 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	61,085	17.0%	55,098	16.6%	1,017	
MA Statewide	613,273	17.1%	558,296	16.5%	17,114	

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	136	9.4%	12,039	17.4%	16,642	10.8%	17,862	13.1%	2,830	18.2%	101	25.2%	5,513		55,198	18.0%
MA Statewide	1,282	11.0%	80,704	16.4%	54,220	10.6%	94,001	10.9%	23,609	18.4%	655	24.3%	43,766		816,095	16.5%

Data Current as of 4/14/2021

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 = 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 4/14/2021

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:
 - **18.6%** for ages 0-64
 - **64.2%** for ages 65-74
 - **72.9%** 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
Boston	115,393	18.9%	30,441	64.1%	22,654	67.9%
MA Statewide	1,077,455	18.6%	438,274	64.2%	359,587	72.9%

Data Current as of 4/14/2021

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.

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 4/14/2021 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 **26.9%**.
- 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	Count	% of Population	Count	% of Population	Count	% of Population
Boston	978,15	27.2%	68,796	20.7%	1,877	
MA Statewide	1,106,157	30.9%	749,947	22.2%	19,212	

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	216	14.9%	16,279	23.5%	31,330	20.3%	19,090	13.9%	4,873	31.4%	248	62.0%	7,521		82,024	26.7%
MA Statewide	1,649	14.2%	84,335	17.1%	92,514	18.2%	101,250	11.8%	34,430	26.9%	943	35.0%	82,329		1,383,217	27.9%

Data Current as of 4/14/2021

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 = 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.

Missing Race/Ethnicity Count and Percentage of Population Vaccinated for Boston Compared to Statewide as of 4/14/2021

TOWN	Unknown, First Dose	% of Missing, First Dose	Unknown, Partially Vaccinated	% of Missing, Partially Vaccinated	Unknown, Fully Vaccinated	% of Missing, Fully Vaccinated
Boston	13,786	4.8%	6,879	5.9%	6,907	4.1%
MA Statewide	169,000	5.5%	74,351	6.3%	94,649	5.0%

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.

Data Current as of 4/14/2021

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.

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 (4/15/2021)	Two Week Case Counts (4/15/2021)	Average Daily Incidence Rate per 100,000 (4/15/2021)
Boston	36,686	5,732	59.1	67,229	3129	32.3
Brockton	8,013	987	71.0	13,133	466	33.5
Chelsea	5,880	707	136.8	8,490	183	35.4
Everett	4,930	808	118.9	8,290	225	33.1
Fall River	7,079	1,296	103.6	13,490	444	35.5
Fitchburg	2,522	476	80.7	4,489	135	22.9
Framingham	4,681	723	69.4	7,909	320	30.7
Haverhill	4,217	901	97.6	7,725	284	30.8
Holyoke	2,770	414	72.8	5,323	283	49.7
Lawrence	12,568	2,116	172.3	19,229	569	46.3
Leominster	2,541	573	101.4	4,756	103	18.2
Lowell	9,844	1,966	120.9	16,567	885	54.4
Lynn	10,212	1,758	124.5	16,636	496	35.1
Malden	3,676	718	75.8	6,836	271	28.6
Methuen	4,154	909	120.6	7,185	262	34.8
New Bedford	6,943	1,413	100.9	13,653	488	34.9
Randolph	2,075	325	67.4	3,958	167	34.6
Revere	6,188	1,151	135.1	10,323	316	37.1
Springfield	10,159	1,837	84.0	20,239	1035	47.3
Worcester	13,435	2,295	85.6	22,659	743	27.7
MA Statewide	322,652	61,603	63.2	611,825	27,379	28.1

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 4/13/2021 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
DRAFT. Not For Circulation. For Internal Policy Discussion.