VACCINATION DATA REPORT Lowell 04/16/2021

Lowell - Benchmarks

Vaccine Administration

- 1. The per-capita dose administration rate (total doses) in Lowell and whether they have met or exceeded the statewide rate
- 2. The percentage of Lowell 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 Lowell 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 Lowell 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 Lowell Compared to Statewide as of 4/14/2021

Vaccine Administration Benchmark

- Per-capita dose administration rate for Lowell 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
Lowell	54,073	46,557.3
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 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 Lowell Compared to Statewide as of 4/14/2021

Vaccine Administration Benchmark

- Percentage of Lowell that has received a First Dose of vaccine and whether the community has met or exceeded the statewide average of 44.0%.
- Percentage of Lowell that is **Partially Vaccinated** and whether they have met or exceeded the state average of **17.1%**.
- The percentage of Lowell 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
Lowell	36,162	31.1%
MA Statewide	3,063,999	44.0%

TOWN	Partailly Vaccinated	% of Community, Partially Vaccinated	Fully Vaccinated	% of Community, Fully Vacccinated
Lowell	14,339	12.3%	21,823	18.8%
MA Statewide	1,188,683	17.1%	1,875,316	26.9%

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. 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 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

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 Lowell 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,	0 - 64 Years,	65-74 Years,	65 - 74 Years,	75+ Years,	75+ Years,
	Count	% of	Count	% of	Count	% of
•		Population		Population		Population
Lowell	25,755	25.1%	6,378	75.9%	4,029	75.6%
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. 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 with a First Dose by Demographics for Lowell 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	Femal	e, First Dose	Male	, First Dose	Unknown/Undifferentiated , First Dose			
TOWN	Count	% of Population	Count	% of Population	Count	% of Population		
Lowell	20,360	35.2%	15,700	26.9%	102			
MA Statewide	1,719,430	1,719,430 48.0%		38.7%	36,326			

Race/Ethnicity and Dose	Indian/A	nerican Ilaska Native First Dose	Asian NH, First Dose		Black NH, First Dose Hispanic, Fi		c, First Dose	, 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
Lowell	30	20.0%	7,076	24.7%	2,041	20.2%	3,824	16.3%	1,178	51.6%	(1-29)		2,182		18,678	35.9%
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 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 Lowell 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
Lowell	12,324	12.0%	1,400	16.7%	615	11.5%
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. Percentage calculations may be > 100% due to differences in data sources for populatic 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 Lowell 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, P	artially Vaccinated	Male, Par	tially Vaccinated	Unknown/Undifferentiated, Partially Vaccinated			
TOWN	Count	% of Population	Count	% of Population	Count	% of Population		
Lowell	7,506	13.0%	6,776	11.6%	57			
MA Statewide	613,273	17.1%	558,296	16.5%	17,114			

Race/Ethnicity and Dose	Indian/A NH,	ierican laska Native Partially cinated		H, Partially cinated		H, Partially cinated	Hispanic, Partially Vaccinated		Vaccinated		, I		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
Lowell	(1-29)		3,634	12.7%	610	6.0%	1,834	7.8%	518	22.7%	(1-29)		713		6,463	12.4%
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%

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.

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.

^{*}Other includes individuals that are reported as Other. Some large vaccination sites report race/ethnicity as "Other." **Missing/Unknown is defined on page 16.

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 Lowell 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,	0 - 64 Years,	65-74 Years,	65 -74 Years,	75+ Years,	75+ Years,
	Count	% of	Count	% of	Count	% of
		Population		Population		Population
Lowell	13,431	13.1%	4,978	59.3%	3,414	64.0%
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.

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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 be vaccinated through Federal Pharmacy Partnership Program (FPPP), Long Term Care Facilities, and

Counts and Percentages of Population Fully Vaccinated by Demographics for Lowell 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, F	ully Vaccinated	Male, F	ully Vaccinated	Unknown/Undifferentiated, Fully Vaccinated		
TOWN	Count	% of Population	Count	% of Population	Count	% of Population	
Lowell	12,854	22.2%	8,924	15.3%	45		
MA Statewide	1,106,157	30.9%	749,947	22.2%	19,212		

Race/Ethnicity and Dose	India Native	nerican n/Alaska NH, Fully cinated	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
Lowell	(1-29)		3,442	12.0%	1,431	14.1%	1,990	8.5%	660	28.9%	(1-29)		1,469		12,215	23.5%
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.

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Missing Race/Ethnicity Count and Percentage of Population Vaccinated for Lowell 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	
Lowell	1,139	3.1%	553	3.9%	586	2.7%	
MA Statewide	169,000	5.5%	74,351	6.3%	94,649	5.0%	

Data Current as of 4/14/2021

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 be 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

Population									
Group	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	Two Week	Average Daily	Total Case Counts	Two Week	Average Daily Incidence Rate	
	Counts	Case Counts	Incidence Rate	(4/15/2021)	Case Counts	per 100,000	
	(12/24/2020)	(12/24/2020)	per 100,000		(4/15/2021)	(4/15/2021)	
			(12/24/2020)				
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	

Profile of Lowell by Race/Ethnicity

TOWN	Total Pop	American	% of	Asian	% of	Black	% of	Hispanic	% of	Multi	% of	Native	% of	White NH	% of
		Indian/Alaska	Population,	NH	Population,	NH	Population,		Population,	NH	Population,	Hawaiian/	Population,		Population,
		Native NH	American		Asian, NH		Black, NH		Hispanic		Multi, NH	Pacific Islander	Native		White, NH
			Indian/									NH	Hawaiian/		
			Alaska Native,										Pacific Islander,		
			NH										NH		
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Lowell	116,143	150	0.1%	28,673	24.7%	10,125	8.7%	23,430	20.2%	2,281	2.0%	55	0.0%	52,059	44.8%
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

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