VACCINATION DATA REPORT Lowell Friday, July 9, 2021

Lowell - Benchmarks

Vaccine Administration

- 1. The per-capita dose administration rate (total doses) in Lowell and whether they have met or exceeded the overall statewide average
- 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 **Sex and Race/Ethnicity groups** that has received a **First Dose** of vaccine and whether they have met or exceeded the overall statewide average.
- 3. The percentage of Lowell 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 statewide averages.

Communities with highest COVID-19 burden

1. Decrease COVID-19 Incidence in Lowell based on the average daily incidence per 100,000 (as published in the Daily Interactive COVID -19 dashboard).

Vaccination Definitions

- First Dose– Anyone who has received any vaccine (at least the 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 7/7/2021

Vaccine Administration Benchmark

- Per-capita dose administration rate for Lowell compared to the overall state rate of **124,717.6** 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 | 119,828 | 103,172.9 |
| MA Statewide | 8,685,809 | 124,717.6 |

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 7/7/2021

Count and Percentage of Population for First Dose, Partially, and Fully Vaccinated for Lowell Compared to Statewide as of 7/7/2021

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 67.7%.
- Percentage of Lowell that is **Partially Vaccinated** and whether they have met or exceeded the state average of **6.8%**.
- that is Fully Vaccinated and whether they have met or exceeded the state average of 61.0% . • The percentage of Lowell
- Groups that have met or exceeded the overall statewide average are shaded blue.

| TOWN | First Dose ^ | % of Community with First Dose |
|------------|--------------|--------------------------------|
| Lowell | 65,659 | 56.5% |
| MA Statewi | de 4,717,304 | 67.7% |

| TOWN | Partailly Vaccinated ^ ^ | % of Community, Partially Vaccinated | Fully Vaccinated ^ ^ ^ | % of Community, Fully Vacccinated |
|--------------|--------------------------|-----------------------------------------|------------------------|--------------------------------------|
| Lowell | 6,427 | 5.5% | 59,232 | 51.0% |
| MA Statewide | 470,096 | 6.8% | 4,247,208 | 61.0% |

Data Current as of 7/7/2021

[^]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

FIRST DOSE

Anyone who has received any vaccine (at least the 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 7/7/2021

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:
 - 62.8% for ages 0-64
 - **92.6% for** ages 65-74
 - 90.8% 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 | 65-74 Years, Count | 65 - 74 Years, % of | 75+ Years, Count | 75+ Years, % of |
|--------------|----------------------|-----------------------|-----------------------|------------------------|---------------------|--------------------|
| | | Population | | Population | | Population |
| Lowell | 53,590 | 52.3% | 7,573 | 90.2% | 4,496 | 84.3% |
| MA Statewide | 3,637,104 | 62.8% | 632,348 | 92.6% | 447,852 | 90.8% |

Data Current as of 7/7/2021

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.

Counts and Percentages of Population with a First Dose by Demographics for Lowell Compared to Statewide as of 7/7/2021 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 67.7%.
- Groups that have met or exceeded the overall statewide average are shaded blue.

| Sex and Dose | Female | e, First Dose | Male, | First Dose | Unknown/Undifferentiated, First Dose | | | |
|--------------|-----------|-----------------|-----------|-----------------|-----------------------------------------|-----------------|--|--|
| TOWN | Count | % of Population | Count | % of Population | Count | % of Population | | |
| Lowell | 34,627 | 59.8% | 30,866 | 53.0% | 166 | | | |
| MA Statewide | 2,514,842 | 70.2% | 2,163,343 | 64.0% | 39,119 | | | |

| Race/Ethnicity and Dose | Indian/ | merican Alaska Native L, First Dose | | nL, First Dose | | H/nL, First ose | | 'Latinx, First ose | Multiple Races nH/nL, First Dose | | L, 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 |
| Lowell | 63 | 41.9% | 15,889 | 55.4% | 4,114 | 40.6% | 9,103 | 38.9% | 2,593 | >100.0% | 34 | 61.6% | 3,645 | | 28,329 | 54.4% |
| MA Statewide | 5,057 | 43.4% | 331,613 | 67.3% | 257,057 | 50.5% | 422,161 | 49.1% | 107,810 | 84.2% | 2,572 | 95.4% | 178,787 | | 3,171,519 | 64.0% |

Data Current as of 7/7/2021

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;

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 7/7/2021

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:
 - **6.6%** for ages 0-64
 - **6.8%** for ages 65-74
 - 8.1% 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 | 65 -74 Years, Count | 65 - 74 Years, % of | 75+ Years, Count | 75+ Years, % of |
|--------------|----------------------|-----------------------|------------------------|------------------------|---------------------|--------------------|
| | | Population | | Population | | Population |
| Lowell | 5,601 | 5.5% | 425 | 5.1% | 401 | 7.5% |
| MA Statewide | 383,307 | 6.6% | 46,742 | 6.8% | 40,047 | 8.1% |

Data Current as of 7/7/2021

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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Counts and Percentages of Population Partially Vaccinated by Demographics for Lowell Compared to Statewide as of 7/7/2021 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 6.8%.
- Groups that have met or exceeded the overall statewide average are shaded blue.

| Sex and Dose | Female, Pa | rtially Vaccinated | Male, Par | tially Vaccinated | Unknown/Undifferentiated, Partially Vaccinated | | | |
|--------------|------------|--------------------|-----------|-------------------|---------------------------------------------------|-----------------|--|--|
| TOWN | Count | % of Population | Count | % of Population | Count | % of Population | | |
| Lowell | 3,198 | 5.5% | 3,198 | 5.5% | 31 | | | |
| MA Statewide | 236,580 | 6.6% | 219,085 | 6.5% | 14,431 | | | |

| Race/Ethnicity and Dose | ose Indian/Alaska Native nH/nL, Partially Vaccinated | | Asian nH/nL, Partially Vaccinated 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 |
| Lowell | (1-29) | | 1,423 | 5.0% | 524 | 5.2% | 1,208 | 5.2% | 204 | 8.9% | (1-29) | | 574 | | 2,030 | 3.9% |
| MA Statewide | 808 | 6.9% | 29,971 | 6.1% | 33,846 | 6.6% | 58,304 | 6.8% | 7,392 | 5.8% | 375 | 13.9% | 27,463 | | 248,209 | 5.0% |

Data Current as of 7/7/2021

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/nL = Non - Hispanic/Non-Latinx;

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 7/7/2021

Vaccine Administration Benchmark

- Percentage by **Age Group** who are **Fully Vaccinated** and whether they have met or exceeded the statewide agespecific group average of:
 - **56.2% for** ages 0-64
 - 85.8% for ages 65-74
 - 82.7% for ages 75+
- Groups that have met or exceeded the overall statewide average are shaded blue.

| TOWN | | 0 - 64 Years, | | | | 75+ Years, |
|--------------|-----------|---------------|---------|------------|---------|------------|
| | Count | % of | Count | % of | Count | % of |
| | | Population | | Population | | Population |
| Lowell | 47,989 | 46.9% | 7,148 | 85.1% | 4,095 | 76.8% |
| MA Statewide | 3,253,797 | 56.2% | 585,606 | 85.8% | 407,805 | 82.7% |

Data Current as of 7/7/2021

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Counts and Percentages of Population Fully Vaccinated by Demographics for Lowell Compared to Statewide as of 7/7/2021 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 61.0%.
- Groups that have met or exceeded the overall statewide average are shaded blue.

| Sex and Dose | Female, Fu | ully Vaccinated | Male, Fu | lly Vaccinated | Unknown/Undifferentiated, Fully Vaccinated | | | |
|--------------|------------|-----------------|-----------|-----------------|-----------------------------------------------|-----------------|--|--|
| TOWN | Sex Count | % of Population | Sex Count | % of Population | Sex Count | % of Population | | |
| Lowell | 31,429 | 54.3% | 27,668 | 47.5% | 135 | | | |
| MA Statewide | 2,278,262 | 63.6% | 1,944,258 | 57.5% | 24,688 | | | |

| Race/Ethnicity and Dose | India Native | nerican an/Alaska nH/nL, Fully ccinated | Vacc | H/nL, Fully inated | | H/nL, Fully inated | | Latinx, Fully inated | | Races nH/nL, 'accinated | Hawa Islande | Native aiian/Pacific r nH/nL, Fully ccinated | Vacc | H/nL, Fully inated | White nH Vacci | - |
|----------------------------|-----------------|--------------------------------------------------|---------|-----------------------|---------|-----------------------|---------|-------------------------|---------|----------------------------|-----------------|-------------------------------------------------------|---------|-----------------------|-------------------|--------------------|
| 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 | 50 | 33.3% | 14,466 | 50.5% | 3,590 | 35.5% | 7,895 | 33.7% | 2,389 | >100.0% | (1-29) | | 3,071 | | 26,299 | 50.5% |
| MA Statewide | 4,249 | 36.5% | 301,642 | 61.2% | 223,211 | 43.8% | 363,857 | 42.4% | 100,418 | 78.4% | 2,197 | 81.5% | 151,324 | | 2,923,310 | 59.0% |

Data Current as of 7/7/2021

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/nL = Non – Hispanic/Non-Latinx;

Count and Percentage of Missing Race/Ethnicity for First Dose, Partial and Full Vaccinations for Lowell Compared to Statewide as of 7/7/2021

| TOWN | Missing, First Dose | % of Missing, First Dose | Missing, Partially Vaccinated | % of Missing, Partially Vaccinated | Missing, Fully Vaccinated | % of Missing, Fully Vaccinated | |
|--------------|------------------------|-----------------------------|-------------------------------------|------------------------------------------|---------------------------------|--------------------------------------|--|
| Lowell | 1,889 | 2.9% | 446 | 6.9% | 1,443 | 2.4% | |
| MA Statewide | 240,728 | 5.1% | 63,728 | 13.6% | 177,000 | 4.2% | |

Data Current as of 7/7/2021

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.

Communities COVID -19 Burden

COVID-19 Case Counts and Rates for 20 Prioritized Communities

<u>City/Towns with highest burden</u>

• Decrease COVID-19 Incidence in the City/Towns based on average daily incidence per 100,000 (daily interactive COVID-19 dashboard)

| Community | Total Case Counts | Two Week Case Counts | Average Daily Incidence Rate | Total Case Counts (7/8/2021) | Two Week Case Counts | Average Daily Incidence Rate per 100,000 |
|--------------|----------------------|-------------------------|---------------------------------|---------------------------------|-------------------------|---------------------------------------------|
| | (12/24/2020) | (12/24/2020) | per 100,000 | (7/8/2021) | (7/8/2021) | (7/8/2021) |
| | (12/24/2020) | (12/24/2020) | (12/24/2020) | | (7/0/2021) | (7/8/2021) |
| Boston | 36,686 | 5,732 | 59.1 | 71,067 | 103 | 1.1 |
| Brockton | 8,013 | 987 | 71.0 | 14,213 | 24 | 1.7 |
| Chelsea | 5,880 | 707 | 136.8 | 8,904 | 12 | 2.3 |
| Everett | 4,930 | 808 | 118.9 | 8,637 | 7 | 1.0 |
| Fall River | 7,079 | 1,296 | 103.6 | 14,332 | 18 | 1.4 |
| Fitchburg | 2,522 | 476 | 80.7 | 4,807 | <5 | 0.5 |
| Framingham | 4,681 | 723 | 69.4 | 8,359 | 10 | 1.0 |
| Haverhill | 4,217 | 901 | 97.6 | 8,337 | 26 | 2.8 |
| Holyoke | 2,770 | 414 | 72.8 | 5,735 | <5 | 0.7 |
| Lawrence | 12,568 | 2,116 | 172.3 | 20,381 | 31 | 2.5 |
| Leominster | 2,541 | 573 | 101.4 | 5,007 | 5 | 0.9 |
| Lowell | 9,844 | 1,966 | 120.9 | 17,694 | 44 | 2.7 |
| Lynn | 10,212 | 1,758 | 124.5 | 17,419 | 18 | 1.3 |
| Malden | 3,676 | 718 | 75.8 | 7,222 | 6 | 0.6 |
| Methuen | 4,154 | 909 | 120.6 | 7,660 | 11 | 1.5 |
| New Bedford | 6,943 | 1,413 | 100.9 | 14,841 | 25 | 1.8 |
| Randolph | 2,075 | 325 | 67.4 | 4,225 | 9 | 1.9 |
| Revere | 6,188 | 1,151 | 135.1 | 10,822 | 12 | 1.4 |
| Springfield | 10,159 | 1,837 | 84.0 | 22,261 | 43 | 2.0 |
| Worcester | 13,435 | 2,295 | 85.6 | 23,906 | 42 | 1.6 |
| MA Statewide | 322,652 | 61,603 | 63.2 | 664,307 | 1,001 | 1.0 |

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 7/8/2021 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 Lowell by Race/Ethnicity

| TOWN | Total Pop | American Indian/Alaska Native nH/nL | % of Population, American Indian/ Alaska Native, | Asian nH/nL | % of Population, Asian, nH/nL | Black nH/nL | % of Population, Black, nH/nL | Hispanic /Latinx | % of Population , Hispanic/L atinx | nH/nL | % of Population, Multiple Races, nH/nL | Native Hawaiian/ Pacific Islander nH/nL | % of Population, Native Hawaiian/ Pacific Islander, | White nH/nL | % of Population, White, nH/nL |
|--------------|-----------|-------------------------------------------|--------------------------------------------------------------|----------------|-------------------------------------|----------------|-------------------------------------|---------------------|------------------------------------------------|---------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|----------------|----------------------------------------|
| Lowell | 116,143 | 150 | nH/nL 0.1% | 28,673 | 24.7% | 10,125 | 8.7% | 23,430 | 20.2% | 2,281 | 2.0% | 55 | nH/nL 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/nL = Non – Hispanic/Non-Latinx