



Weekly COVID-19 Vaccination Report

The Weekly COVID-19 Vaccination Report includes the most currently available information on vaccines administered, as well as more granular information by geography, demographic factors, and more.

This report will be posted each Wednesday.

An important note regarding vaccination progress

Source: Centers for Disease Control and Prevention. COVID Data Tracker.
Atlanta, GA: US Department of Health and Human Services, CDC; September 14, 2022.
<https://covid.cdc.gov/covid-data-tracker>

Massachusetts currently ranks tied for first among US states for the rate of persons with one or more doses administered per capita.

Massachusetts currently ranks first for the rate of persons with one or more doses per capita among states with populations of five million people or more.

Please note: This report reflects data available in the Massachusetts Immunization Information System (MIIS) as of Monday at 11:59PM and is pulled every Tuesday. Due to provider reporting of administration data and data processing, data may be available in MIIS 24-48 hours or more after administration. Due to time needed for inputting shipment data, shipment data may be available in MIIS 24-48 hours or more after shipment. MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and may be subject to change in future publications as additional data are reported. All data are from MIIS unless otherwise noted.

COVID-19 Vaccines Administered

Data as of September 19, 2022

Administered (MIIS)* through Monday, September 19, 2022 (Running totals by day)							
	September 13, 2022	September 14, 2022	September 15, 2022	September 16, 2022	September 17, 2022	September 18, 2022	September 19, 2022
At least one dose -- number of people who received at least one dose of Moderna, Pfizer, or Johnson & Johnson vaccine	6,334,542	6,337,424	6,340,079	6,343,273	6,345,167	6,346,183	6,347,449
Fully vaccinated -- number of people who received a primary series of Moderna, Pfizer, or Johnson & Johnson vaccine**	5,473,852	5,475,527	5,477,216	5,479,065	5,480,097	5,480,694	5,481,504
First booster doses -- number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,235,275	3,237,101	3,238,765	3,240,598	3,241,592	3,242,174	3,243,110
Second booster doses -- number of people who have received at least 2 booster doses****	753,533	760,079	765,802	773,947	778,086	780,584	783,339
Total Doses Administered (MIIS)	15,519,152	15,538,303	15,555,680	15,577,148	15,587,914	15,594,455	15,602,867

*Data from the Massachusetts Immunization Information System (MIIS) are as of midnight the night before.

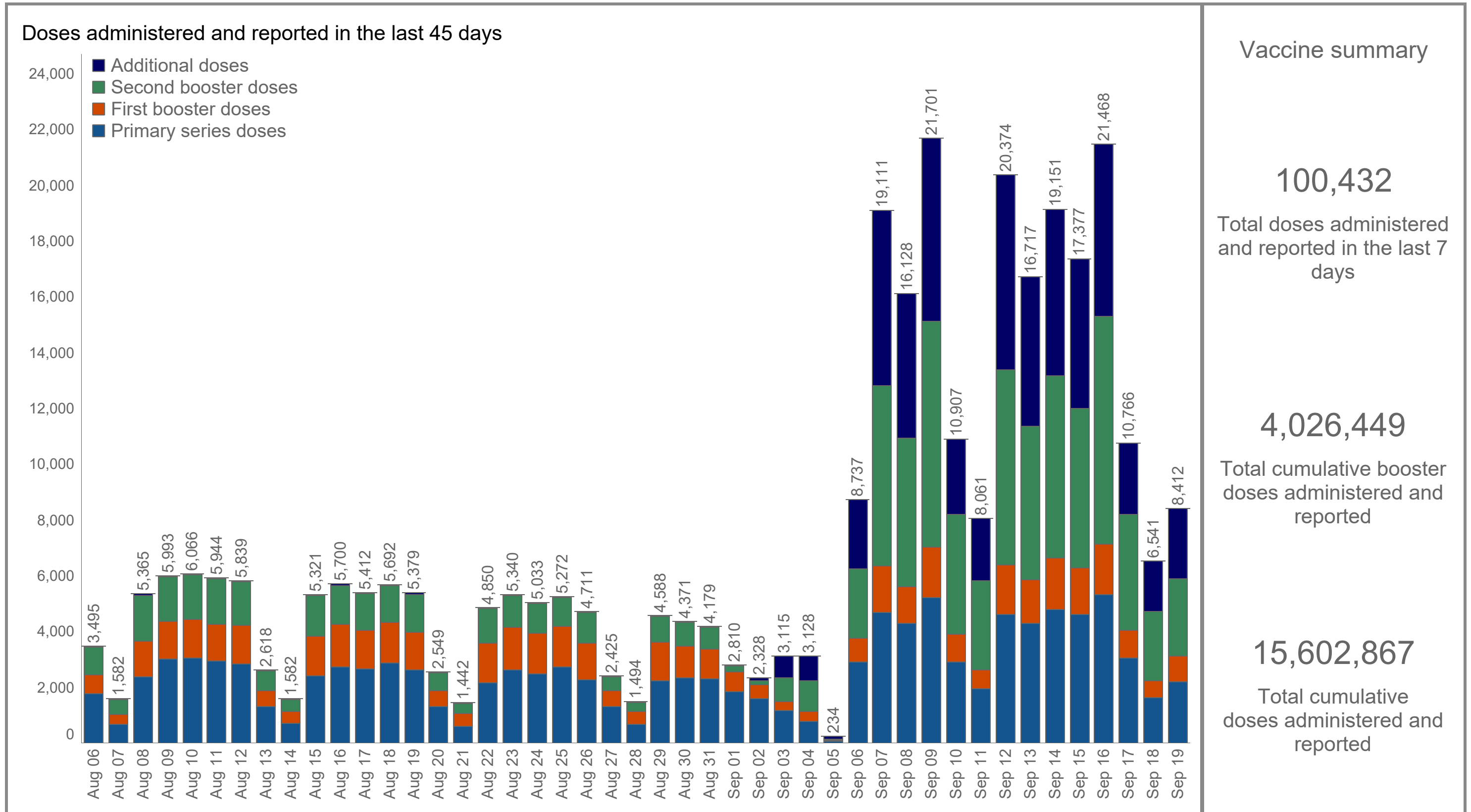
**An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

***See the definitions page at the end of this document for the full definition. Booster doses are currently recommended for everyone aged 5 years and older. See <https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions> for details on which formulation of vaccine is recommended at which intervals.

****Second booster doses: Number of individuals who have received an additional dose after their first booster dose.

COVID-19 Vaccine Doses Administered

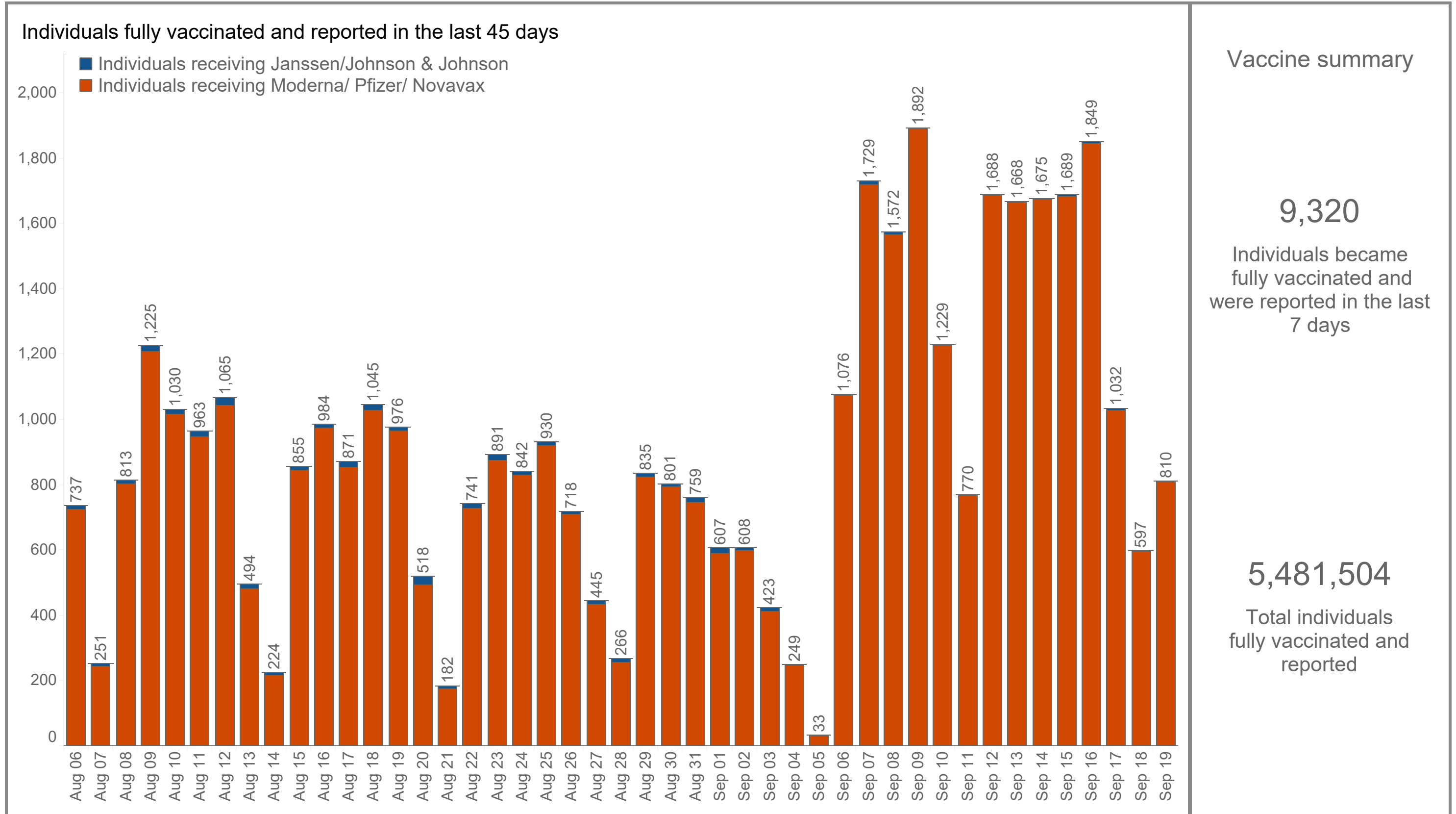
Data as of September 19, 2022



Note: Data from MIIS (see "definitions"). Data reflect doses administered (see "definitions"). Dates reflect the date doses were administered. Doses administered: All valid doses of Janssen/Johnson & Johnson, Moderna, Novavax, and Pfizer COVID-19 vaccine that have been given to people by providers and reported to MIIS are included in this measurement. Primary series doses: the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. See the definitions page at the end of this document.

Individuals Fully Vaccinated

Data as of September 19, 2022



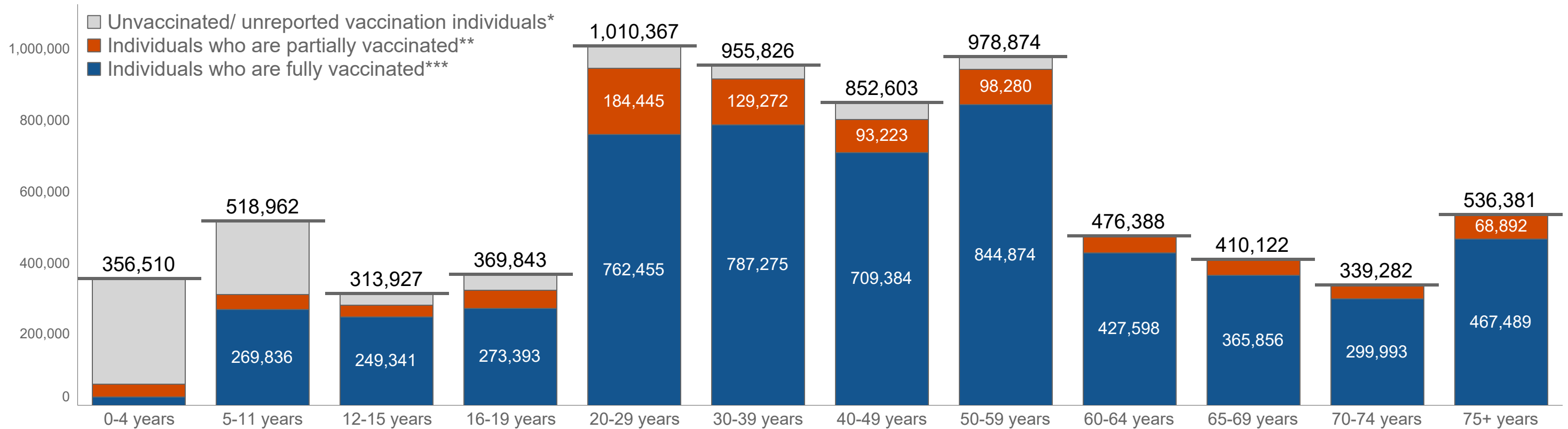
NOTE: Data from MIIS (see "definitions"). Dates reflect the date doses were administered. Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

Individuals with at Least One Dose

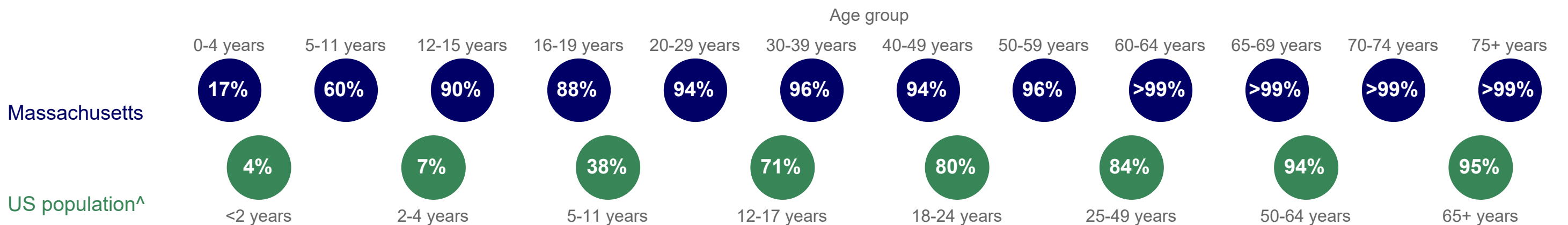
Data as of September 19, 2022

In Massachusetts, 90% of the population has received at least one dose, compared with 79% of the US population.

Vaccination status of individuals by age group (cumulative)



Percent of population with at least one dose



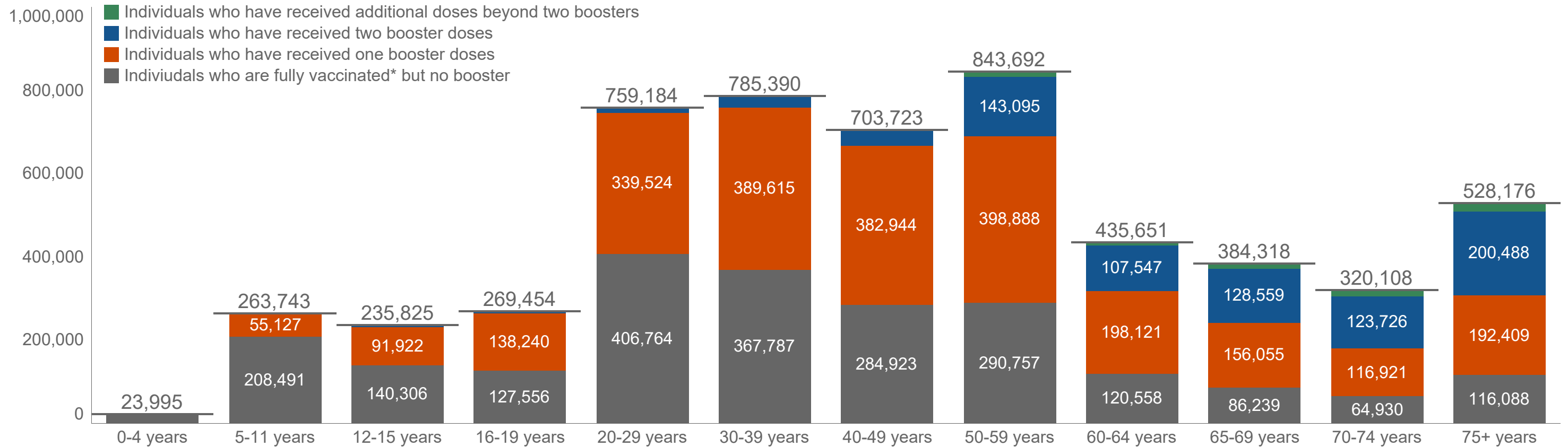
Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *Unvaccinated/unreported vaccination individuals: This is the population estimate for the subpopulation minus the number of people who received at least one dose of vaccine. It is important to recall that not being represented in MIIS does not necessarily mean someone has not received vaccine. **Individuals who are partially vaccinated are those who have received at least one dose, but have not completed a primary series. ***Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. [^]CDC percent of population coverage metrics are capped at 95%. For more information: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/reporting-vaccinations.html> Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2022-09-14://[covid.cdc.gov/covid-data-tracker](https://www.cdc.gov/covid-data-tracker) (3) MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Individuals who have Received Booster Doses

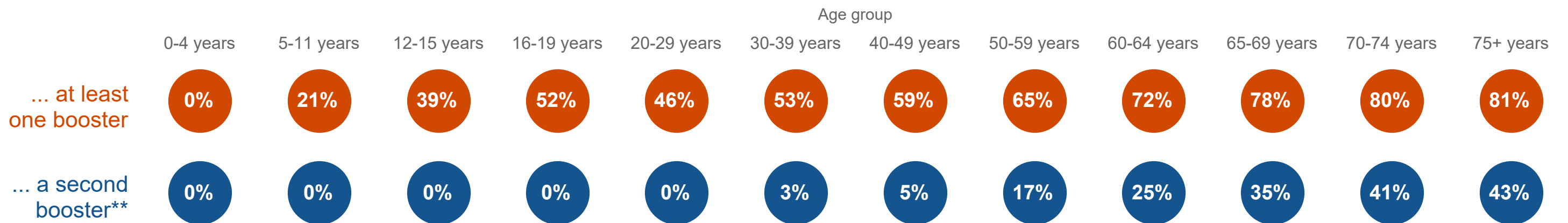
Data as of September 19, 2022

In Massachusetts, 59% of those fully vaccinated have received a booster dose, compared with 49% of the national population that is fully vaccinated.

Booster status of fully vaccinated individuals by age group



Percent of the Massachusetts fully vaccinated* population with...



Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. This includes some individuals who may not be eligible for a booster (i.e. less than 2 months after primary series). **Not mutually exclusive. The 'second booster' row includes all those counted in the first row, with at least one booster, plus those individuals who have received an additional dose. Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2022-09-14. <https://covid.cdc.gov/covid-data-tracker> (3) MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Individuals Fully Vaccinated

Data as of September 19, 2022

Individuals fully vaccinated by county, race, and Hispanic ethnicity (1 of 2)

Number of people in the county and race/ethnicity group who are fully vaccinated divided by the estimated population in the county and race/ethnicity group

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Barnstable	44% of 1,171 residents	70% of 3,230 residents	79% of 6,644 residents	>95% of 7,637 residents	34% of 12,144 residents	>95% of 53 residents	77% of 198,117 residents	3% of 228,996 Barnstable county residents	79% of 228,996 residents
Berkshire	56% of 153 residents	71% of 1,978 residents	63% of 4,132 residents	62% of 6,619 residents	36% of 5,666 residents	*	75% of 110,470 residents	3% of 129,026 Berkshire county residents	75% of 129,026 residents
Bristol	47% of 1,045 residents	64% of 13,752 residents	74% of 24,506 residents	61% of 53,995 residents	33% of 32,048 residents	>95% of 148 residents	65% of 453,707 residents	3% of 579,200 Bristol county residents	66% of 579,200 residents
Dukes	50% of 219 residents	95% of 181 residents	>95% of 809 residents	>95% of 452 residents	21% of 1,899 residents	*	79% of 17,031 residents	8% of 20,600 Dukes county residents	86% of 20,600 residents
Essex	46% of 808 residents	74% of 29,651 residents	78% of 27,604 residents	57% of 181,759 residents	62% of 26,257 residents	>95% of 155 residents	78% of 543,595 residents	3% of 809,829 Essex county residents	76% of 809,829 residents
Franklin	53% of 122 residents	78% of 1,215 residents	65% of 985 residents	54% of 3,329 residents	31% of 3,207 residents	*	75% of 62,163 residents	3% of 71,029 Franklin county residents	74% of 71,029 residents
Hampden	58% of 646 residents	70% of 12,176 residents	59% of 36,442 residents	50% of 120,694 residents	49% of 15,087 residents	>95% of 165 residents	70% of 280,615 residents	4% of 465,825 Hampden county residents	67% of 465,825 residents
Hampshire	52% of 199 residents	49% of 10,709 residents	52% of 4,398 residents	48% of 11,248 residents	38% of 6,930 residents	>95% of 43 residents	74% of 128,781 residents	3% of 162,308 Hampshire county residents	71% of 162,308 residents

* Vaccination figures with fewer than 30 people are suppressed for privacy.

** "Unknown/other race" is shown as a % of the row population (county or state). "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the COVID-19 vaccine series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

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Individuals Fully Vaccinated

Data as of September 19, 2022

Individuals fully vaccinated by county, race, and Hispanic ethnicity (2 of 2)

Number of people in the county and race/ethnicity group who are fully vaccinated divided by the estimated population in the county and race/ethnicity group

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Middlesex	66% of 1,511 residents	75% of 212,123 residents	72% of 84,324 residents	74% of 141,738 residents	78% of 81,692 residents	>95% of 380 residents	79% of 1,110,235 residents	4% of 1,632,002 Middlesex county residents	81% of 1,632,002 residents
Nantucket	*	77% of 274 residents	>95% of 1,025 residents	88% of 2,175 residents	24% of 615 residents	*	74% of 10,149 residents	7% of 14,255 Nantucket county residents	82% of 14,255 residents
Norfolk	51% of 736 residents	74% of 88,772 residents	74% of 50,563 residents	69% of 37,460 residents	>95% of 29,540 residents	>95% of 151 residents	78% of 518,759 residents	3% of 725,981 Norfolk county residents	80% of 725,981 residents
Plymouth	34% of 893 residents	66% of 7,962 residents	73% of 48,249 residents	64% of 23,417 residents	42% of 35,840 residents	59% of 220 residents	73% of 414,238 residents	2% of 530,819 Plymouth county residents	73% of 530,819 residents
Suffolk	51% of 1,235 residents	78% of 81,295 residents	76% of 142,086 residents	74% of 177,973 residents	59% of 37,543 residents	>95% of 357 residents	69% of 357,446 residents	4% of 797,936 Suffolk county residents	76% of 797,936 residents
Worcester	46% of 1,183 residents	71% of 46,778 residents	60% of 45,164 residents	66% of 110,448 residents	50% of 37,582 residents	>95% of 145 residents	71% of 620,810 residents	3% of 862,111 Worcester county residents	71% of 862,111 residents
Unknown/ Unspecified**	3% of 9,939 AI/AN residents	3% of 510,096 Asian residents	2% of 476,930 Black residents	1% of 878,944 Hispanic residents	1% of 326,050 Multi-race residents	7% of 1,841 NH/PI residents	2% of 4,826,116 White residents	0% of 7,029,917 MA residents	3% of 7,029,917 residents
Massachusetts	53% of 9,939 residents	76% of 510,096 residents	73% of 476,930 residents	66% of 878,944 residents	60% of 326,050 residents	>95% of 1,841 residents	77% of 4,826,116 residents	4% of 7,029,917 MA residents	78% of 7,029,917 residents

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Individuals Fully Vaccinated

Data as of September 19, 2022

Individuals fully vaccinated by county and age group (1 of 2)

Number of people in the county and age group who are fully vaccinated divided by the estimated population in the county and age group

	0-4 years	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
Barnstable	3% of 8,117 residents	42% of 12,225 residents	73% of 7,999 residents	81% of 8,444 residents	72% of 22,109 residents	83% of 20,313 residents	80% of 21,363 residents	81% of 34,083 residents	88% of 21,351 residents	87% of 21,806 residents	90% of 19,831 residents	94% of 31,352 residents	79% of 228,996 residents
Berkshire	3% of 5,429 residents	53% of 8,296 residents	73% of 5,380 residents	68% of 6,484 residents	65% of 15,369 residents	78% of 13,757 residents	77% of 13,736 residents	79% of 19,125 residents	87% of 10,525 residents	88% of 9,518 residents	94% of 8,017 residents	88% of 13,390 residents	75% of 129,026 residents
Bristol	2% of 30,091 residents	29% of 45,540 residents	61% of 27,527 residents	66% of 29,121 residents	59% of 74,766 residents	66% of 73,958 residents	69% of 73,224 residents	77% of 85,414 residents	85% of 39,125 residents	91% of 31,728 residents	92% of 25,741 residents	85% of 42,964 residents	66% of 579,200 residents
Dukes	6% of 882 residents	57% of 1,267 residents	>95% of 785 residents	>95% of 653 residents	95% of 2,070 residents	>95% of 2,359 residents	94% of 2,432 residents	84% of 3,147 residents	83% of 1,702 residents	79% of 1,801 residents	86% of 1,574 residents	88% of 1,929 residents	86% of 20,600 residents
Essex	5% of 44,345 residents	50% of 64,079 residents	79% of 38,871 residents	78% of 41,764 residents	71% of 102,396 residents	81% of 101,407 residents	81% of 99,259 residents	85% of 118,474 residents	91% of 56,226 residents	94% of 46,143 residents	95% of 36,776 residents	91% of 60,087 residents	76% of 809,829 residents
Franklin	4% of 3,011 residents	44% of 4,819 residents	70% of 2,910 residents	86% of 2,764 residents	69% of 7,572 residents	75% of 8,732 residents	74% of 8,315 residents	79% of 10,333 residents	83% of 6,159 residents	90% of 5,875 residents	>95% of 4,581 residents	90% of 5,954 residents	74% of 71,029 residents
Hampden	2% of 24,918 residents	33% of 38,042 residents	63% of 23,128 residents	61% of 26,022 residents	58% of 65,472 residents	69% of 59,405 residents	74% of 53,671 residents	80% of 62,992 residents	87% of 31,187 residents	93% of 25,936 residents	>95% of 20,519 residents	88% of 34,534 residents	67% of 465,825 residents
Hampshire	9% of 5,278 residents	63% of 8,930 residents	81% of 5,934 residents	37% of 16,019 residents	45% of 33,434 residents	82% of 16,604 residents	83% of 16,047 residents	85% of 20,206 residents	94% of 10,664 residents	>95% of 9,895 residents	>95% of 7,914 residents	>95% of 11,383 residents	71% of 162,308 residents

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Individuals Fully Vaccinated

Data as of September 19, 2022

Individuals fully vaccinated by county and age group (2 of 2)

Number of people in the county and age group who are fully vaccinated divided by the estimated population in the county and age group

	0-4 years	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
Middlesex	13% of 83,667 residents	67% of 121,734 residents	90% of 73,083 residents	79% of 82,715 residents	76% of 242,436 residents	84% of 242,118 residents	87% of 206,995 residents	88% of 222,367 residents	93% of 100,804 residents	>95% of 81,083 residents	>95% of 64,640 residents	93% of 110,359 residents	81% of 1,632,002 residents
Nantucket	*	45% of 1,012 residents	86% of 562 residents	>95% of 507 residents	>95% of 1,722 residents	93% of 2,214 residents	91% of 2,184 residents	91% of 2,082 residents	87% of 945 residents	90% of 764 residents	94% of 562 residents	77% of 847 residents	82% of 14,255 residents
Norfolk	10% of 37,515 residents	63% of 56,630 residents	85% of 35,180 residents	84% of 36,428 residents	78% of 90,767 residents	83% of 95,497 residents	82% of 93,243 residents	87% of 105,961 residents	93% of 48,444 residents	>95% of 39,164 residents	>95% of 31,323 residents	88% of 55,829 residents	80% of 725,981 residents
Plymouth	4% of 27,514 residents	41% of 42,518 residents	68% of 26,597 residents	77% of 27,177 residents	68% of 61,517 residents	74% of 61,280 residents	75% of 65,393 residents	81% of 81,528 residents	88% of 38,334 residents	93% of 31,886 residents	>95% of 26,374 residents	92% of 40,701 residents	73% of 530,819 residents
Suffolk	6% of 40,171 residents	51% of 47,420 residents	85% of 26,325 residents	57% of 46,527 residents	77% of 176,345 residents	81% of 145,860 residents	86% of 88,768 residents	87% of 87,549 residents	87% of 40,123 residents	91% of 32,272 residents	94% of 24,580 residents	85% of 41,995 residents	76% of 797,936 residents
Worcester	4% of 45,082 residents	43% of 68,600 residents	72% of 42,016 residents	71% of 46,659 residents	66% of 114,476 residents	74% of 111,763 residents	76% of 108,360 residents	80% of 126,900 residents	87% of 58,820 residents	92% of 46,033 residents	>95% of 35,450 residents	87% of 57,952 residents	71% of 862,111 residents
Unknown/ Unspecified**	0% of 356,875 MA residents 0-4 Years	1% of 521,112 MA residents 5-11 Years	1% of 316,296 MA residents 12-15 Years	2% of 371,285 MA residents 16-19 Years	5% of 1,010,451 MA residents 20-29 Years	4% of 955,267 MA residents 30-39 Years	3% of 852,990 MA residents 40-49 Years	2% of 980,162 MA residents 50-59 Years	2% of 464,409 MA residents 60-64 Years	2% of 383,903 MA residents 65-69 Years	2% of 307,883 MA residents 70-74 Years	2% of 509,277 MA residents 75+ Years	3% of 7,029,917 residents
Massachusetts	7% of 356,875 residents	52% of 521,112 residents	79% of 316,296 residents	74% of 371,285 residents	75% of 1,010,451 residents	82% of 955,267 residents	83% of 852,990 residents	86% of 980,162 residents	92% of 464,409 residents	>95% of 383,903 residents	>95% of 307,883 residents	92% of 509,277 residents	78% of 7,029,917 residents

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Individuals who have Received Booster Doses

Data as of September 19, 2022

Individuals with at least one booster dose administered by county, race, and Hispanic ethnicity (1 of 2)

Number of people in the county and race/ethnicity group with at least one booster dose divided by the fully vaccinated population in the county and race/ethnicity group

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Barnstable	54% of 520 residents	58% of 2,256 residents	37% of 5,263 residents	46% of 7,902 residents	69% of 4,087 residents	40% of 99 residents	67% of 152,925 residents	1% of 180,460 Barnstable county residents	63% of 180,460 residents
Berkshire	35% of 85 residents	53% of 1,407 residents	44% of 2,611 residents	43% of 4,098 residents	61% of 2,046 residents	*	63% of 82,551 residents	1% of 96,328 Berkshire county residents	61% of 96,328 residents
Bristol	32% of 489 residents	52% of 8,782 residents	42% of 18,227 residents	39% of 32,927 residents	61% of 10,565 residents	35% of 175 residents	57% of 294,496 residents	1% of 381,339 Bristol county residents	53% of 381,339 residents
Dukes	57% of 109 residents	64% of 171 residents	43% of 862 residents	41% of 912 residents	64% of 390 residents	*	67% of 13,480 residents	2% of 17,650 Dukes county residents	60% of 17,650 residents
Essex	35% of 373 residents	60% of 22,045 residents	45% of 21,611 residents	41% of 104,384 residents	66% of 16,197 residents	45% of 201 residents	64% of 426,133 residents	1% of 616,405 Essex county residents	58% of 616,405 residents
Franklin	*	56% of 949 residents	47% of 641 residents	50% of 1,806 residents	71% of 1,001 residents	*	67% of 46,399 residents	1% of 52,912 Franklin county residents	64% of 52,912 residents
Hampden	36% of 376 residents	53% of 8,561 residents	47% of 21,455 residents	41% of 60,399 residents	61% of 7,432 residents	42% of 189 residents	61% of 195,582 residents	2% of 313,455 Hampden county residents	54% of 313,455 residents
Hampshire	58% of 104 residents	59% of 5,232 residents	55% of 2,274 residents	55% of 5,393 residents	73% of 2,641 residents	*	70% of 94,683 residents	1% of 115,270 Hampshire county residents	67% of 115,270 residents

* Vaccination figures with fewer than 30 people are suppressed for privacy.

** "Unknown/other race" is shown as a % of the row population (county or state). "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals who have Received Booster Doses

Data as of September 19, 2022

Individuals with at least one booster dose administered by county, race, and Hispanic ethnicity (2 of 2)

Number of people in the county and race/ethnicity group with at least one booster dose divided by the fully vaccinated population in the county and race/ethnicity group

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Middlesex	39% of 992 residents	64% of 158,709 residents	52% of 60,510 residents	46% of 105,156 residents	73% of 63,454 residents	48% of 506 residents	69% of 880,269 residents	1% of 1,328,357 Middlesex county residents	64% of 1,328,357 residents
Nantucket	*	57% of 210 residents	35% of 974 residents	27% of 1,918 residents	63% of 150 residents	*	61% of 7,502 residents	1% of 11,707 Nantucket county residents	50% of 11,707 residents
Norfolk	40% of 378 residents	66% of 65,970 residents	52% of 37,491 residents	51% of 26,020 residents	72% of 29,455 residents	50% of 231 residents	67% of 402,966 residents	1% of 580,978 Norfolk county residents	65% of 580,978 residents
Plymouth	36% of 305 residents	61% of 5,282 residents	42% of 35,182 residents	45% of 14,955 residents	63% of 15,083 residents	42% of 131 residents	62% of 302,439 residents	1% of 386,349 Plymouth county residents	58% of 386,349 residents
Suffolk	41% of 631 residents	61% of 63,788 residents	52% of 108,054 residents	46% of 131,166 residents	70% of 22,088 residents	49% of 606 residents	65% of 247,253 residents	1% of 605,265 Suffolk county residents	56% of 605,265 residents
Worcester	34% of 550 residents	60% of 32,987 residents	45% of 27,005 residents	41% of 73,405 residents	66% of 18,942 residents	46% of 220 residents	62% of 439,494 residents	1% of 614,385 Worcester county residents	58% of 614,385 residents
Unknown/ Unspecified**	1% of 5,263 AI/AN residents	2% of 389,635 Asian residents	1% of 349,564 Black residents	1% of 582,356 Hispanic residents	1% of 196,901 Multi-race residents	1% of 2,581 NH/PI residents	1% of 3,706,760 White residents	0% of 5,481,504 MA residents	1% of 5,481,504 residents
Massachusetts	39% of 5,263 residents	62% of 389,635 residents	49% of 349,564 residents	44% of 582,356 residents	69% of 196,901 residents	45% of 2,581 residents	64% of 3,706,760 residents	1% of 5,481,504 MA residents	59% of 5,481,504 residents

* Vaccination figures with fewer than 30 people are suppressed for privacy.

** "Unknown/other race" is shown as a % of the row population (county or state). "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals who have Received Booster Doses

Data as of September 19, 2022

Individuals with at least one booster dose administered by county and age group (1 of 2)

Number of people in the county and age group with at least one booster dose divided by the fully vaccinated population in the county and age group

	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
Barnstable	13% of 5,088 residents	31% of 5,848 residents	49% of 6,798 residents	42% of 15,962 residents	44% of 16,924 residents	53% of 17,088 residents	61% of 27,694 residents	72% of 18,698 residents	79% of 19,042 residents	83% of 17,766 residents	85% of 29,348 residents	63% of 180,460 residents
Berkshire	14% of 4,426 residents	37% of 3,933 residents	51% of 4,393 residents	42% of 9,923 residents	49% of 10,798 residents	57% of 10,620 residents	63% of 15,200 residents	72% of 9,139 residents	79% of 8,410 residents	79% of 7,508 residents	82% of 11,799 residents	61% of 96,328 residents
Bristol	13% of 13,241 residents	26% of 16,685 residents	44% of 19,116 residents	39% of 44,159 residents	41% of 48,695 residents	48% of 50,883 residents	57% of 65,361 residents	67% of 33,432 residents	73% of 28,715 residents	75% of 23,675 residents	77% of 36,691 residents	53% of 381,339 residents
Dukes	10% of 719 residents	41% of 764 residents	53% of 711 residents	34% of 1,964 residents	44% of 2,640 residents	55% of 2,278 residents	66% of 2,635 residents	77% of 1,414 residents	81% of 1,421 residents	85% of 1,355 residents	94% of 1,695 residents	60% of 17,650 residents
Essex	16% of 31,805 residents	35% of 30,698 residents	51% of 32,540 residents	44% of 72,485 residents	49% of 81,688 residents	57% of 80,485 residents	64% of 100,346 residents	72% of 51,380 residents	78% of 43,419 residents	79% of 34,870 residents	81% of 54,612 residents	58% of 616,405 residents
Franklin	20% of 2,128 residents	43% of 2,028 residents	50% of 2,383 residents	46% of 5,194 residents	54% of 6,537 residents	62% of 6,137 residents	66% of 8,125 residents	73% of 5,129 residents	80% of 5,289 residents	86% of 4,472 residents	83% of 5,371 residents	64% of 52,912 residents
Hampden	11% of 12,724 residents	27% of 14,543 residents	41% of 15,961 residents	37% of 37,907 residents	42% of 40,743 residents	50% of 39,838 residents	59% of 50,151 residents	68% of 27,132 residents	75% of 24,003 residents	78% of 19,607 residents	78% of 30,457 residents	54% of 313,455 residents
Hampshire	32% of 5,638 residents	53% of 4,814 residents	56% of 5,857 residents	53% of 15,128 residents	60% of 13,553 residents	68% of 13,285 residents	71% of 17,243 residents	77% of 9,998 residents	83% of 9,747 residents	86% of 8,410 residents	87% of 11,115 residents	67% of 115,270 residents

* Vaccination figures with less than 30 people are suppressed for privacy.

** "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Booster doses administered: Data on booster doses administered reflect the additional dose of vaccine after completion of the primary series.

Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.) Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals who have Received Booster Doses

Data as of September 19, 2022

Individuals with at least one booster dose administered by county and age group (2 of 2)

Number of people in the county and age group with at least one booster dose divided by the fully vaccinated population in the county and age group

	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
Middlesex	27% of 81,651 residents	48% of 65,933 residents	60% of 65,367 residents	52% of 184,643 residents	61% of 204,187 residents	67% of 180,514 residents	71% of 196,172 residents	77% of 94,199 residents	82% of 78,503 residents	83% of 64,222 residents	84% of 102,460 residents	64% of 1,328,357 residents
Nantucket	10% of 454 residents	30% of 485 residents	42% of 489 residents	26% of 1,640 residents	37% of 2,056 residents	51% of 1,997 residents	60% of 1,891 residents	70% of 822 residents	79% of 689 residents	81% of 528 residents	84% of 649 residents	50% of 11,707 residents
Norfolk	25% of 35,877 residents	45% of 29,764 residents	62% of 30,553 residents	54% of 70,623 residents	60% of 79,733 residents	67% of 76,360 residents	71% of 92,380 residents	77% of 44,876 residents	82% of 37,501 residents	83% of 30,144 residents	84% of 49,388 residents	65% of 580,978 residents
Plymouth	12% of 17,521 residents	31% of 18,065 residents	51% of 20,863 residents	45% of 41,858 residents	48% of 45,549 residents	56% of 49,115 residents	62% of 66,280 residents	71% of 33,806 residents	78% of 29,642 residents	81% of 25,144 residents	82% of 37,539 residents	58% of 386,349 residents
Suffolk	20% of 24,334 residents	33% of 22,454 residents	43% of 26,666 residents	45% of 135,744 residents	57% of 117,708 residents	60% of 76,700 residents	65% of 76,160 residents	73% of 35,043 residents	78% of 29,298 residents	80% of 23,024 residents	82% of 35,619 residents	56% of 605,265 residents
Worcester	15% of 29,768 residents	35% of 30,288 residents	52% of 33,036 residents	44% of 75,377 residents	48% of 82,335 residents	56% of 82,176 residents	63% of 101,784 residents	72% of 51,347 residents	79% of 42,386 residents	80% of 33,693 residents	82% of 50,567 residents	58% of 614,385 residents
Unknown/ Unspecified**	0% of 269,836 MA residents 5-11 Years	0% of 249,341 MA residents 12-15 Years	1% of 273,393 MA residents 16-19 Years	3% of 762,455 MA residents 20-29 Years	2% of 787,275 MA residents 30-39 Years	1% of 709,384 MA residents 40-49 Years	1% of 844,874 MA residents 50-59 Years	1% of 427,598 MA residents 60-64 Years	1% of 365,856 MA residents 65-69 Years	1% of 299,993 MA residents 70-74 Years	1% of 467,489 MA residents 75+ Years	1% of 5,481,504 residents
Massachusetts	21% of 269,836 residents	39% of 249,341 residents	52% of 273,393 residents	46% of 762,455 residents	53% of 787,275 residents	59% of 709,384 residents	65% of 844,874 residents	72% of 427,598 residents	78% of 365,856 residents	80% of 299,993 residents	81% of 467,489 residents	59% of 5,481,504 residents

* Vaccination figures with less than 30 people are suppressed for privacy.

** "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Booster doses administered: Data on booster doses administered reflect the additional dose of vaccine after completion of the primary series.

Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.) Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Critical definitions

Please note: the following terms and definition apply to COVID-19 only. Updated 9/20/2022.

Doses administered: All valid doses of Janssen/Johnson & Johnson, Moderna, Pfizer, and Novavax COVID-19 vaccine that have been given to people by providers and reported to MIIS are included in this measurement. Duplicate patient records may be created when patient information is not entered consistently. Data include doses administered by MA providers as well as through the Federal Pharmacy Partnership for Long-term Care Program and the retail pharmacies in the jurisdictional transfer program and Community Health Centers (CHCs) receiving vaccine from the U.S. Health Resources and Services Administration (HRSA). Some doses are administered as part of a separate federal distribution system and would not be included here.

Individuals with a least one dose: An individual is counted as at least one dose if they have received one or more doses of vaccine. This is measured as the total number of first doses of Moderna, Pfizer, and Novavax vaccine administered and reported, plus the total number of Janssen/Johnson & Johnson doses administered and reported.

Individuals who are fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

Booster doses administered: On 8/13/21, a third dose was recommended for severely immunocompromised individuals to complete their primary series. These doses are counted as 'booster' doses. On 9/24/21, booster doses of Pfizer vaccine were recommended for individuals aged 65 and older, for those at risk for severe disease, or for those at high risk for occupational exposure six months after completing their primary series. On 10/22/21, booster doses of Moderna vaccine were recommended for the same population. Additionally, booster doses of any vaccine, including Johnson & Johnson, were recommended for everyone 18 years and older at least two months after receiving initial Johnson & Johnson vaccine. On 12/9/21, mix and match and Johnson & Johnson boosters were added to the booster counts, which redistributed shots that had previously been counted in other rows. This also adjusted for people who have completed a primary series and had previously been double counted. On 1/4/22, the Pfizer vaccine booster dose recommendation was revised to be five months after completing primary series. On 1/7/22, the Moderna vaccine booster dose recommendation was revised to be five months after completing primary series. On 3/29/22, second monovalent booster doses were recommended for adults aged 50 years and older.

On 9/1/22, bivalent boosters were recommended for everyone aged 12 years and older whose primary series or most recent booster dose were administered at least two months ago. This recommendation replaced all previous booster recommendations for this age group.

See, <https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions> for details on which formulation of vaccine is recommended at which intervals.

Additional doses beyond second booster: Some individuals with certain health conditions are eligible to receive additional doses of vaccine. These doses are counted in this category. For more information, see: <https://www.mass.gov/info-details/covid-19-vaccinations-for-individuals-with-certain-medical-conditions>

Individuals who are unvaccinated/unreported vaccination: This is the population estimate for the subpopulation minus the number of people who received at least one dose of vaccine. It is important to recall that not being represented in MIIS does not necessarily mean someone has not received vaccine.

MIIS: Immunization data from most (but not all) providers in Massachusetts are reported into the Massachusetts Immunization Information System (MIIS) through direct messages from electronic health records or direct entry by users. Due to inputting and processing, it may take 24-48 hours or more for shipping or administration data to appear in MIIS. MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and may be subject to change in future publications as additional data are reported. As of 11/4/21, MIIS numbers include vaccinations reported from the Veterans Administration for MA residents. MIIS does not include data on health states or occupations of individuals.