



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 21, 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 26, 2022

Administered (MIIS)* through Monday, September 26, 2022 (Running totals by day)

	September 20, 2022	September 21, 2022	September 22, 2022	September 23, 2022	September 24, 2022	September 25, 2022	September 26, 2022
At least one dose -- number of people who received at least one dose of Moderna, Pfizer, or Johnson & Johnson vaccine	6,351,842	6,355,167	6,358,145	6,361,849	6,363,711	6,364,970	6,366,423
Fully vaccinated -- number of people who received a primary series of Moderna, Pfizer, or Johnson & Johnson vaccine**	5,488,420	5,490,499	5,492,428	5,494,505	5,495,477	5,496,048	5,496,946
First booster doses -- number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,249,766	3,252,010	3,254,062	3,256,384	3,257,421	3,258,051	3,259,184
Second booster doses -- number of people who have received at least 2 booster doses****	797,159	805,882	813,188	823,939	828,688	832,025	835,665
Total Doses Administered (MIIS)	15,645,053	15,669,960	15,691,102	15,718,297	15,730,232	15,738,296	15,748,883

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

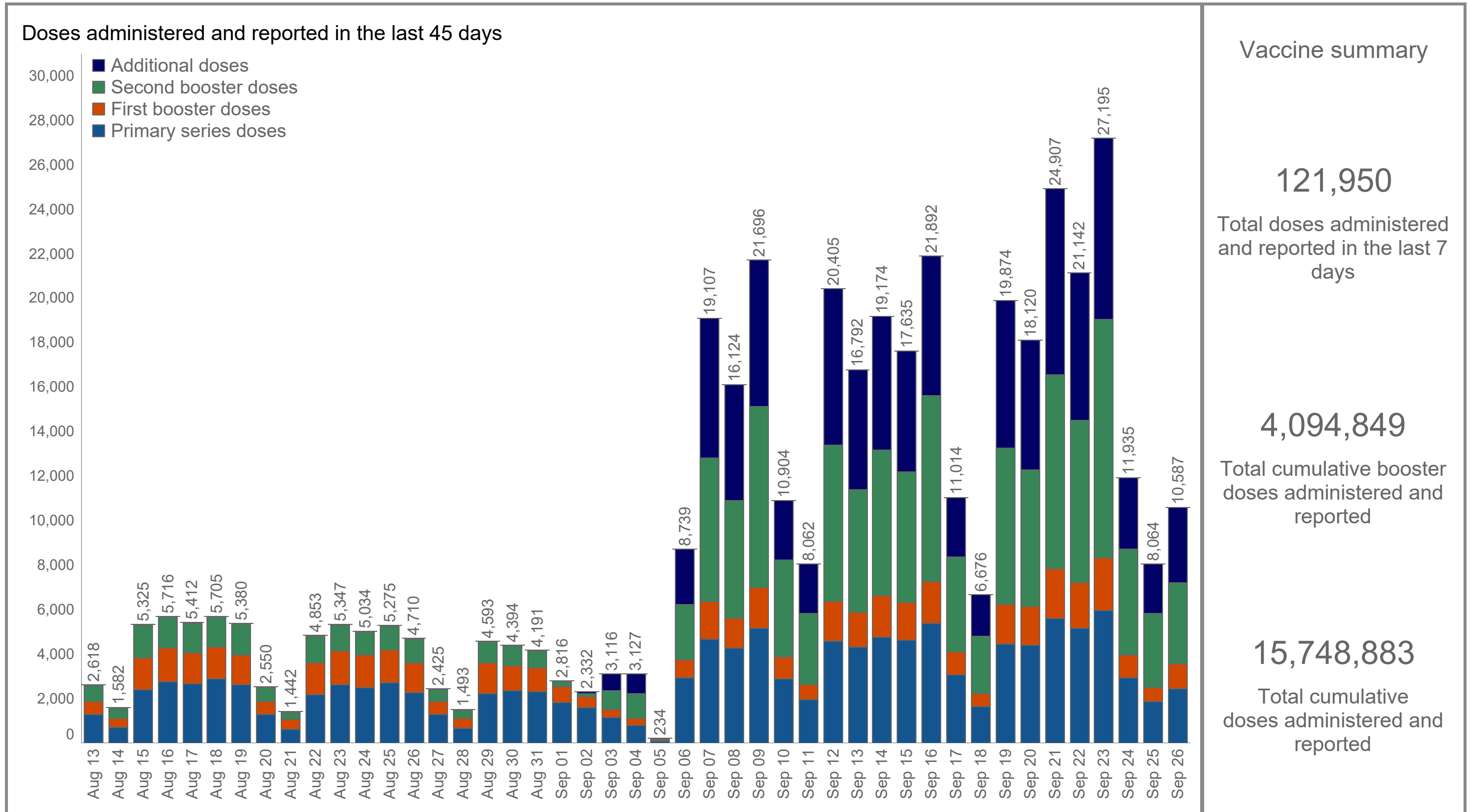
**An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require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

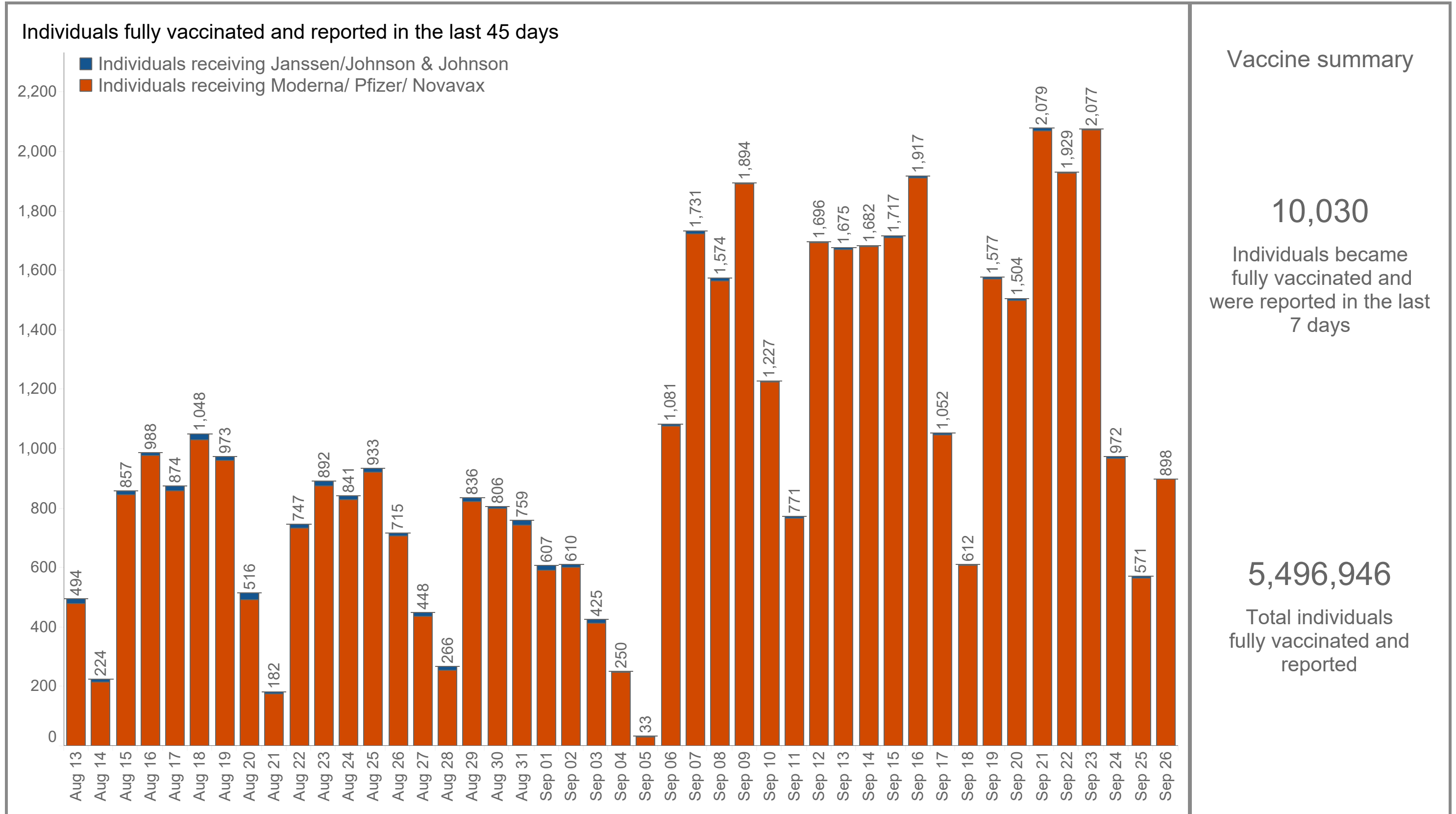
Data as of September 26, 2022



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 26, 2022



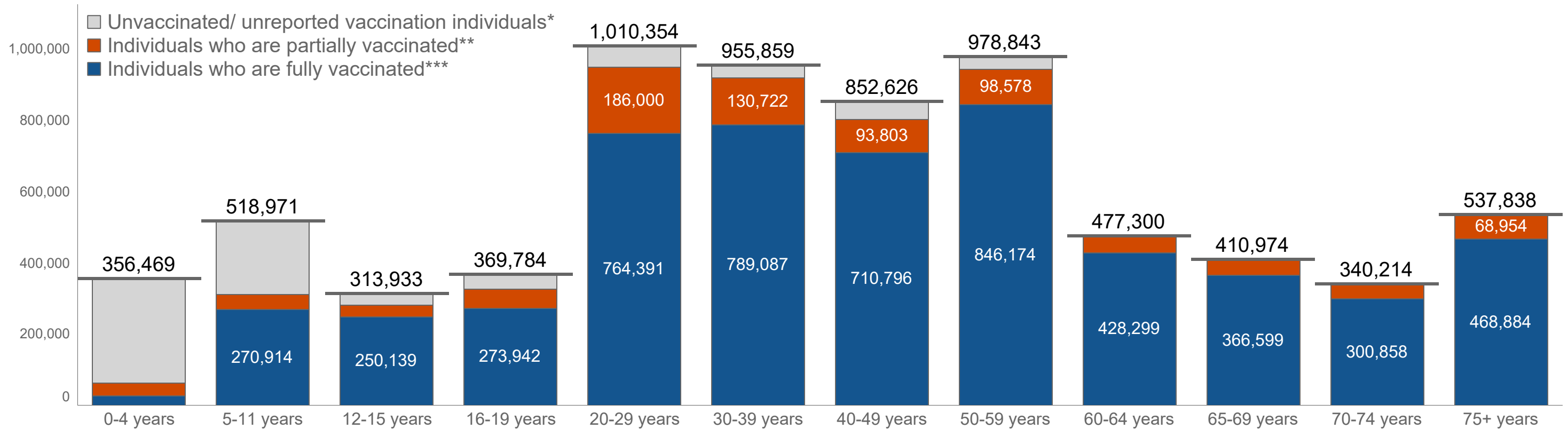
NOTE: Data from MIIS (see "definitions"). Dates reflect the date doses were administered. Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported 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

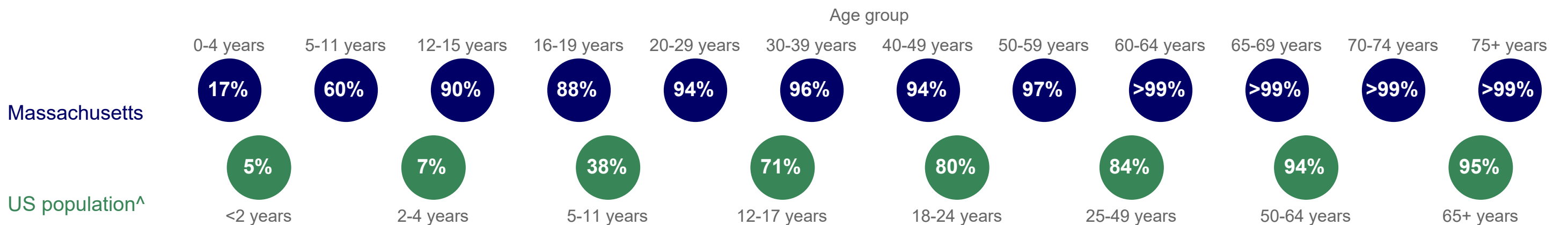
Data as of September 26, 2022

In Massachusetts, 91% of the population has received at least one dose, compared with 80% of the US population.

Vaccination status of individuals by age group (cumulative)



Percent of population with at least one dose



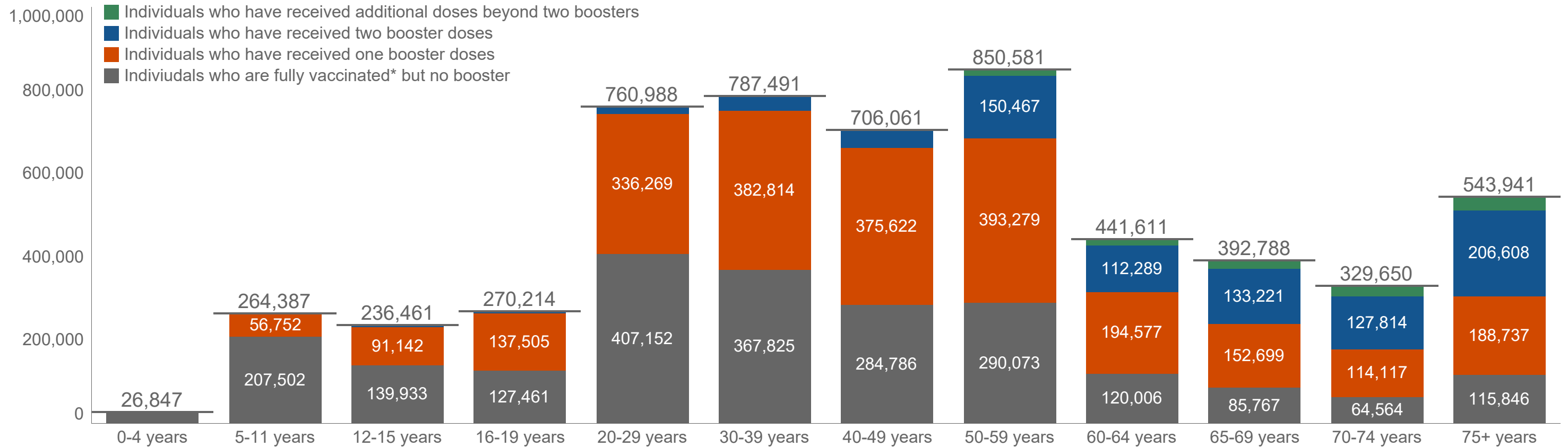
Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *Unvaccinated/unreported vaccination individuals: This is the population estimate for the 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;2022-09-21://[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

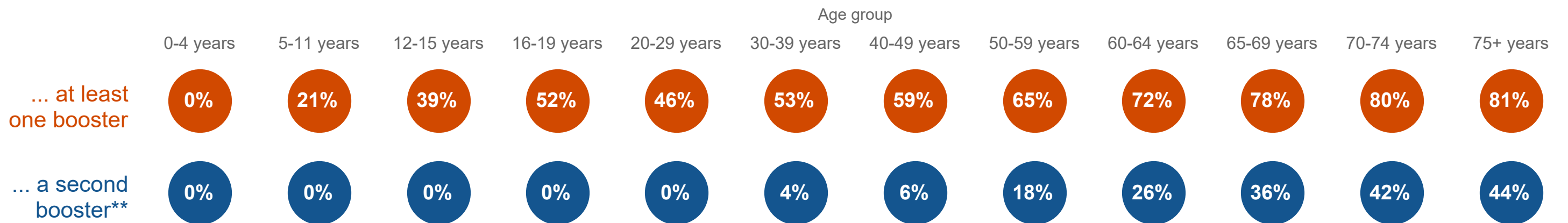
Data as of September 26, 2022

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.

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Individuals Fully Vaccinated

Data as of September 26, 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	45% 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	75% 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	47% of 808 residents	74% of 29,651 residents	78% of 27,604 residents	58% of 181,759 residents	62% of 26,257 residents	>95% of 155 residents	79% of 543,595 residents	3% of 809,829 Essex county residents	76% of 809,829 residents
Franklin	52% of 122 residents	78% of 1,215 residents	65% of 985 residents	55% of 3,329 residents	32% of 3,207 residents	*	75% of 62,163 residents	3% of 71,029 Franklin county residents	75% of 71,029 residents
Hampden	58% of 646 residents	70% of 12,176 residents	59% of 36,442 residents	50% of 120,694 residents	50% 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	39% 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.

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 Fully Vaccinated

Data as of September 26, 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	82% of 1,632,002 residents
Nantucket	*	76% of 274 residents	>95% of 1,025 residents	88% of 2,175 residents	25% of 615 residents	*	74% of 10,149 residents	7% of 14,255 Nantucket county residents	82% of 14,255 residents
Norfolk	52% of 736 residents	74% of 88,772 residents	74% of 50,563 residents	70% 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	67% of 7,962 residents	78% of 48,249 residents	66% of 23,417 residents	43% of 35,840 residents	61% of 220 residents	73% of 414,238 residents	2% of 530,819 Plymouth county residents	74% of 530,819 residents
Suffolk	51% of 1,235 residents	79% 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	67% of 110,448 residents	51% 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	3% 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	77% of 510,096 residents	74% of 476,930 residents	66% of 878,944 residents	61% 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 26, 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	88% of 21,806 residents	90% of 19,831 residents	94% of 31,352 residents	79% of 228,996 residents
Berkshire	4% of 5,429 residents	53% of 8,296 residents	73% of 5,380 residents	68% of 6,484 residents	65% of 15,369 residents	79% of 13,757 residents	77% of 13,736 residents	80% of 19,125 residents	87% of 10,525 residents	89% of 9,518 residents	94% of 8,017 residents	89% of 13,390 residents	75% of 129,026 residents
Bristol	3% 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	70% of 73,224 residents	77% of 85,414 residents	86% of 39,125 residents	91% of 31,728 residents	92% of 25,741 residents	86% of 42,964 residents	66% of 579,200 residents
Dukes	7% 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	5% 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	75% of 71,029 residents
Hampden	2% of 24,918 residents	34% 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	10% 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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** "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

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Individuals Fully Vaccinated

Data as of September 26, 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	14% 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	94% of 100,804 residents	>95% of 81,083 residents	>95% of 64,640 residents	93% of 110,359 residents	82% of 1,632,002 residents
Nantucket	*	45% of 1,012 residents	87% 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	11% of 37,515 residents	64% of 56,630 residents	85% of 35,180 residents	84% of 36,428 residents	78% of 90,767 residents	84% 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	89% of 55,829 residents	80% of 725,981 residents
Plymouth	4% of 27,514 residents	42% of 42,518 residents	70% of 26,597 residents	78% of 27,177 residents	69% of 61,517 residents	75% of 61,280 residents	76% of 65,393 residents	82% of 81,528 residents	89% of 38,334 residents	93% of 31,886 residents	>95% of 26,374 residents	93% of 40,701 residents	74% of 530,819 residents
Suffolk	7% of 40,171 residents	52% of 47,420 residents	85% of 26,325 residents	57% of 46,527 residents	77% of 176,345 residents	81% of 145,860 residents	87% 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	44% 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	8% of 356,875 residents	52% of 521,112 residents	79% of 316,296 residents	74% of 371,285 residents	76% of 1,010,451 residents	83% 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 26, 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	53% of 522 residents	58% of 2,261 residents	37% of 5,267 residents	47% of 7,916 residents	69% of 4,116 residents	40% of 100 residents	67% of 153,254 residents	1% of 180,835 Barnstable county residents	63% of 180,835 residents
Berkshire	35% of 85 residents	53% of 1,408 residents	44% of 2,610 residents	44% of 4,107 residents	62% of 2,060 residents	*	63% of 82,727 residents	1% of 96,522 Berkshire county residents	61% of 96,522 residents
Bristol	31% of 488 residents	52% of 8,792 residents	42% of 18,412 residents	39% of 32,987 residents	61% of 10,663 residents	35% of 176 residents	57% of 294,948 residents	1% of 382,149 Bristol county residents	53% of 382,149 residents
Dukes	57% of 109 residents	64% of 172 residents	44% of 861 residents	40% of 914 residents	64% of 391 residents	*	67% of 13,501 residents	2% of 17,670 Dukes county residents	60% of 17,670 residents
Essex	36% of 377 residents	60% of 22,065 residents	46% of 21,637 residents	41% of 104,539 residents	66% of 16,332 residents	45% of 202 residents	64% of 426,830 residents	1% of 617,389 Essex county residents	58% of 617,389 residents
Franklin	*	56% of 951 residents	47% of 642 residents	49% of 1,817 residents	71% of 1,020 residents	*	67% of 46,501 residents	1% of 53,035 Franklin county residents	64% of 53,035 residents
Hampden	36% of 378 residents	53% of 8,564 residents	47% of 21,474 residents	41% of 60,428 residents	61% of 7,513 residents	41% of 191 residents	61% of 195,903 residents	2% of 313,903 Hampden county residents	54% of 313,903 residents
Hampshire	58% of 104 residents	59% of 5,252 residents	55% of 2,275 residents	55% of 5,402 residents	73% of 2,678 residents	*	71% of 94,912 residents	1% of 115,591 Hampshire county residents	67% of 115,591 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 26, 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	40% of 995 residents	64% of 159,081 residents	52% of 60,591 residents	46% of 105,274 residents	73% of 63,865 residents	49% of 505 residents	69% of 882,110 residents	1% of 1,331,191 Middlesex county residents	64% of 1,331,191 residents
Nantucket	*	57% of 209 residents	35% of 976 residents	27% of 1,920 residents	64% of 152 residents	*	61% of 7,502 residents	1% of 11,709 Nantucket county residents	50% of 11,709 residents
Norfolk	40% of 380 residents	66% of 66,125 residents	52% of 37,667 residents	52% of 26,145 residents	72% of 29,640 residents	50% of 234 residents	68% of 403,888 residents	1% of 582,639 Norfolk county residents	65% of 582,639 residents
Plymouth	36% of 308 residents	61% of 5,325 residents	42% of 37,561 residents	45% of 15,398 residents	63% of 15,249 residents	43% of 134 residents	62% of 303,375 residents	1% of 390,505 Plymouth county residents	58% of 390,505 residents
Suffolk	41% of 635 residents	62% of 63,959 residents	52% of 108,167 residents	46% of 131,355 residents	70% of 22,234 residents	49% of 608 residents	65% of 247,807 residents	1% of 606,490 Suffolk county residents	57% of 606,490 residents
Worcester	34% of 550 residents	60% of 33,013 residents	46% of 27,046 residents	42% of 73,493 residents	67% of 19,110 residents	46% of 220 residents	62% of 440,140 residents	1% of 615,331 Worcester county residents	58% of 615,331 residents
Unknown/ Unspecified**	2% of 5,283 AI/AN residents	2% of 390,533 Asian residents	1% of 352,610 Black residents	1% of 583,671 Hispanic residents	1% of 198,432 Multi-race residents	1% of 2,594 NH/PI residents	1% of 3,715,131 White residents	0% of 5,496,946 MA residents	1% of 5,496,946 residents
Massachusetts	39% of 5,283 residents	62% of 390,533 residents	49% of 352,610 residents	44% of 583,671 residents	69% of 198,432 residents	45% of 2,594 residents	64% of 3,715,131 residents	1% of 5,496,946 MA residents	59% of 5,496,946 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 26, 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	14% of 5,109 residents	31% of 5,851 residents	49% of 6,800 residents	42% of 15,969 residents	44% of 16,936 residents	53% of 17,098 residents	61% of 27,725 residents	72% of 18,726 residents	79% of 19,100 residents	83% of 17,833 residents	85% of 29,445 residents	63% of 180,835 residents
Berkshire	15% of 4,438 residents	37% of 3,933 residents	51% of 4,398 residents	42% of 9,930 residents	49% of 10,811 residents	57% of 10,633 residents	63% of 15,216 residents	72% of 9,156 residents	79% of 8,424 residents	79% of 7,526 residents	82% of 11,854 residents	61% of 96,522 residents
Bristol	13% of 13,309 residents	27% of 16,749 residents	44% of 19,145 residents	39% of 44,238 residents	41% of 48,797 residents	48% of 50,977 residents	57% of 65,437 residents	67% of 33,469 residents	73% of 28,744 residents	75% of 23,707 residents	77% of 36,740 residents	53% of 382,149 residents
Dukes	10% of 719 residents	41% of 764 residents	53% of 711 residents	34% of 1,965 residents	44% of 2,644 residents	55% of 2,277 residents	66% of 2,637 residents	77% of 1,415 residents	82% of 1,423 residents	85% of 1,356 residents	94% of 1,700 residents	60% of 17,670 residents
Essex	17% of 31,910 residents	36% of 30,713 residents	51% of 32,557 residents	44% of 72,536 residents	49% of 81,767 residents	57% of 80,535 residents	64% of 100,398 residents	72% of 51,424 residents	78% of 43,485 residents	80% of 34,941 residents	81% of 54,722 residents	58% of 617,389 residents
Franklin	21% of 2,140 residents	43% of 2,027 residents	50% of 2,390 residents	46% of 5,204 residents	54% of 6,552 residents	62% of 6,146 residents	66% of 8,135 residents	73% of 5,139 residents	80% of 5,300 residents	87% of 4,478 residents	83% of 5,377 residents	64% of 53,035 residents
Hampden	12% of 12,797 residents	28% of 14,557 residents	41% of 15,973 residents	37% of 37,944 residents	42% of 40,782 residents	50% of 39,880 residents	59% of 50,188 residents	68% of 27,163 residents	75% of 24,039 residents	78% of 19,644 residents	78% of 30,493 residents	54% of 313,903 residents
Hampshire	33% of 5,650 residents	53% of 4,817 residents	56% of 5,881 residents	53% of 15,184 residents	60% of 13,589 residents	68% of 13,315 residents	71% of 17,267 residents	77% of 10,008 residents	83% of 9,764 residents	86% of 8,435 residents	87% of 11,134 residents	67% of 115,591 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 26, 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	28% of 81,846 residents	49% of 65,997 residents	61% of 65,410 residents	52% of 185,042 residents	61% of 204,485 residents	68% of 180,728 residents	71% of 196,316 residents	77% of 94,298 residents	82% of 78,609 residents	84% of 64,341 residents	84% of 102,680 residents	64% of 1,331,191 residents
Nantucket	10% of 456 residents	30% of 486 residents	42% of 489 residents	26% of 1,641 residents	37% of 2,056 residents	51% of 1,997 residents	60% of 1,893 residents	70% of 822 residents	79% of 688 residents	82% of 526 residents	83% of 648 residents	50% of 11,709 residents
Norfolk	25% of 36,029 residents	46% of 29,856 residents	62% of 30,577 residents	54% of 70,752 residents	60% of 79,931 residents	67% of 76,512 residents	71% of 92,512 residents	77% of 44,923 residents	82% of 37,566 residents	84% of 30,205 residents	84% of 49,492 residents	65% of 582,639 residents
Plymouth	13% of 17,763 residents	31% of 18,550 residents	51% of 21,124 residents	45% of 42,349 residents	48% of 46,201 residents	56% of 49,712 residents	62% of 66,853 residents	71% of 34,037 residents	78% of 29,781 residents	81% of 25,261 residents	82% of 37,726 residents	58% of 390,505 residents
Suffolk	21% of 24,437 residents	34% of 22,478 residents	43% of 26,705 residents	45% of 136,023 residents	57% of 117,893 residents	60% of 76,792 residents	65% of 76,210 residents	73% of 35,082 residents	78% of 29,321 residents	80% of 23,078 residents	82% of 35,684 residents	57% of 606,490 residents
Worcester	16% of 29,847 residents	35% of 30,314 residents	52% of 33,074 residents	45% of 75,461 residents	48% of 82,411 residents	56% of 82,238 residents	63% of 101,846 residents	72% of 51,392 residents	79% of 42,449 residents	81% of 33,760 residents	82% of 50,678 residents	58% of 615,331 residents
Unknown/ Unspecified**	0% of 270,914 MA residents 5-11 Years	0% of 250,139 MA residents 12-15 Years	1% of 273,942 MA residents 16-19 Years	3% of 764,391 MA residents 20-29 Years	2% of 789,087 MA residents 30-39 Years	1% of 710,796 MA residents 40-49 Years	1% of 846,174 MA residents 50-59 Years	1% of 428,299 MA residents 60-64 Years	1% of 366,599 MA residents 65-69 Years	1% of 300,858 MA residents 70-74 Years	1% of 468,884 MA residents 75+ Years	1% of 5,496,946 residents
Massachusetts	21% of 270,914 residents	39% of 250,139 residents	52% of 273,942 residents	46% of 764,391 residents	53% of 789,087 residents	59% of 710,796 residents	65% of 846,174 residents	72% of 428,299 residents	78% of 366,599 residents	80% of 300,858 residents	81% of 468,884 residents	59% of 5,496,946 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.