



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; October 6, 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 October 10, 2022

Administered (MIIS)* through Monday, October 10, 2022 (Running totals by day)

	October 4, 2022	October 5, 2022	October 6, 2022	October 7, 2022	October 8, 2022	October 9, 2022	October 10, 2022
At least one dose -- number of people who received at least one dose of Moderna, Pfizer, or Johnson & Johnson vaccine	6,388,093	6,391,865	6,395,183	6,398,765	6,400,373	6,401,390	6,402,407
Fully vaccinated -- number of people who received a primary series of Moderna, Pfizer, or Johnson & Johnson vaccine**	5,514,268	5,516,279	5,518,150	5,520,264	5,521,071	5,521,611	5,522,255
First booster doses -- number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,282,759	3,285,412	3,287,621	3,290,013	3,291,045	3,291,745	3,292,560
Second booster doses -- number of people who have received at least 2 booster doses****	922,808	933,886	943,233	955,010	960,072	963,695	967,305
Total Doses Administered (MIIS)	15,968,342	15,997,072	16,021,669	16,050,053	16,061,813	16,069,937	16,078,946

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

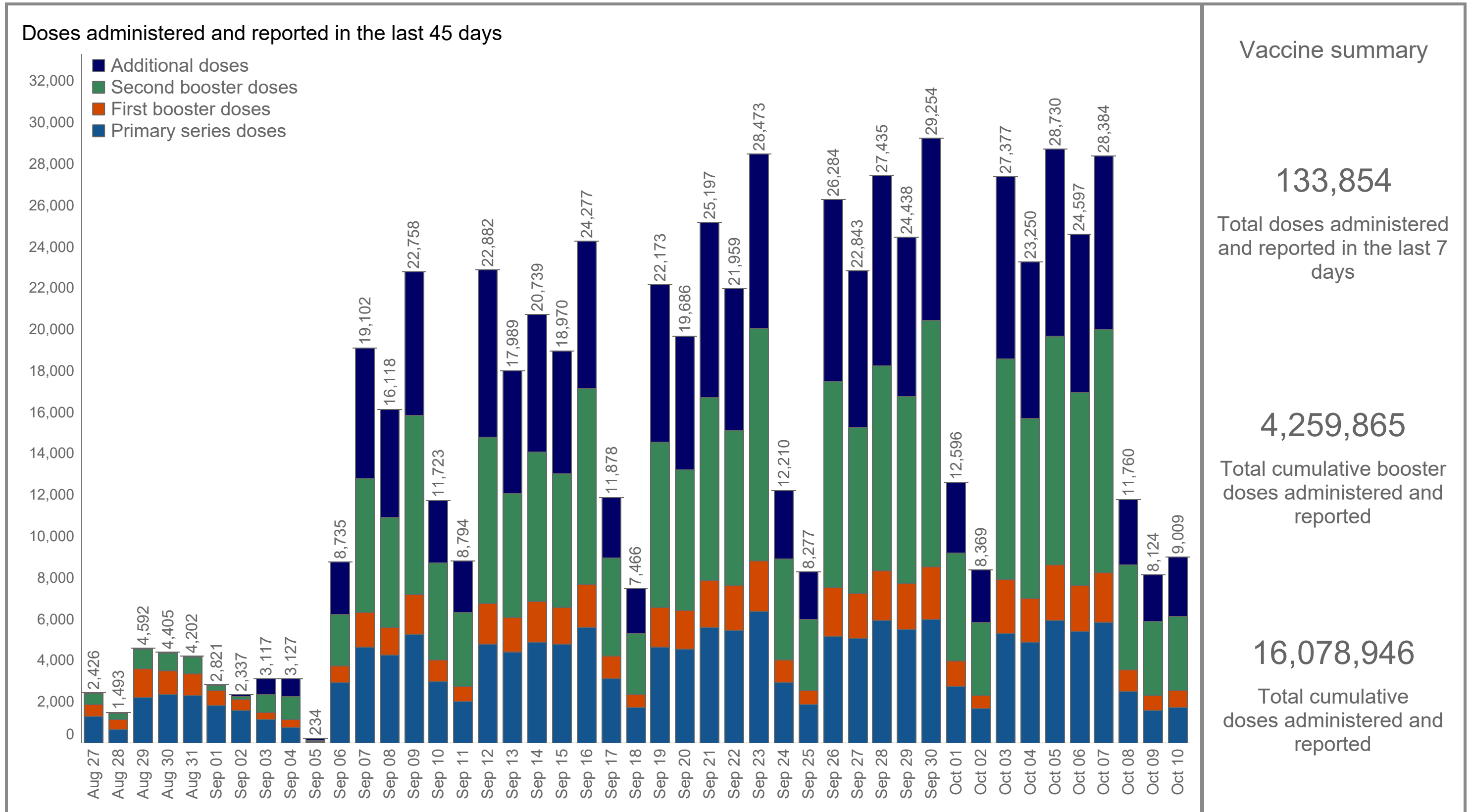
**An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require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

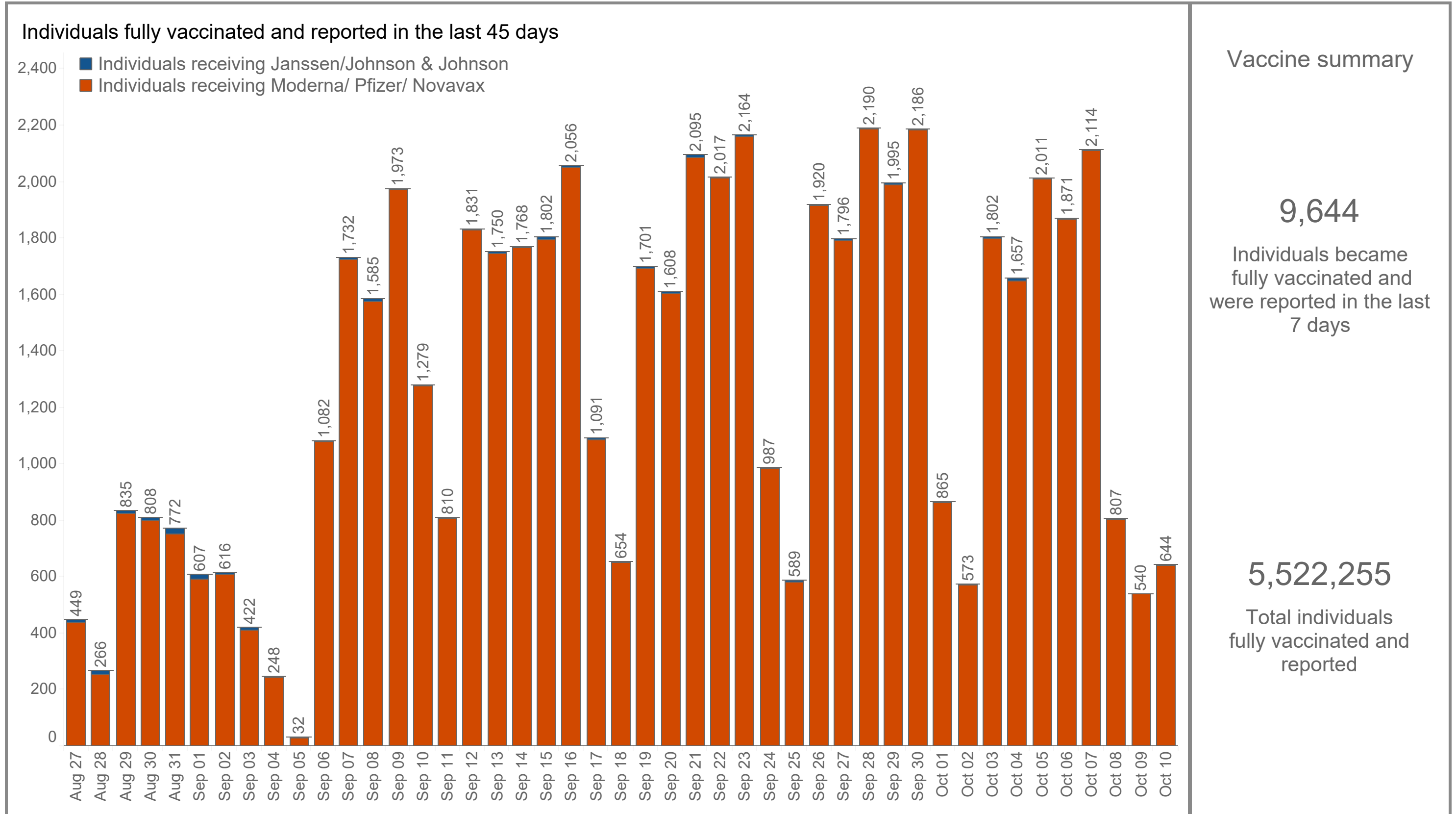
Data as of October 10, 2022



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 October 10, 2022



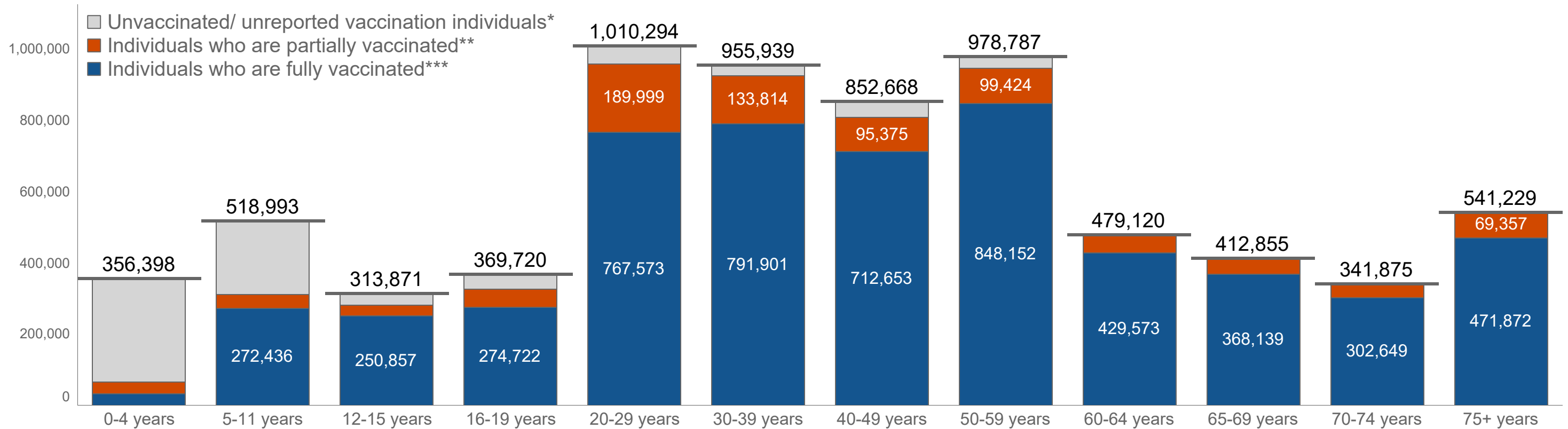
NOTE: Data from MIIS (see "definitions"). Dates reflect the date doses were administered. Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported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

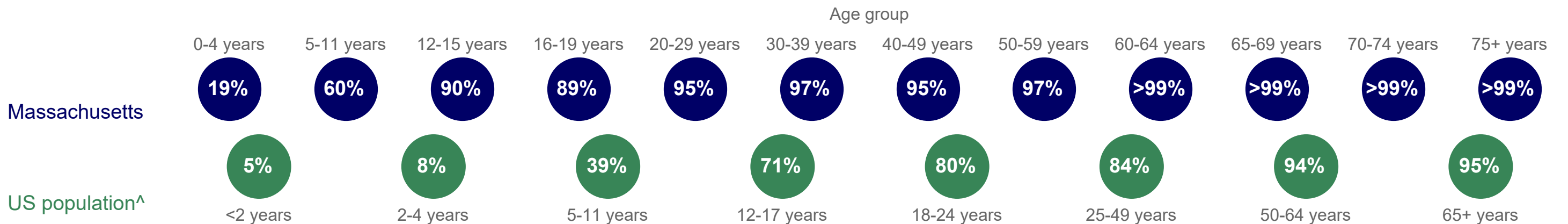
Data as of October 10, 2022

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



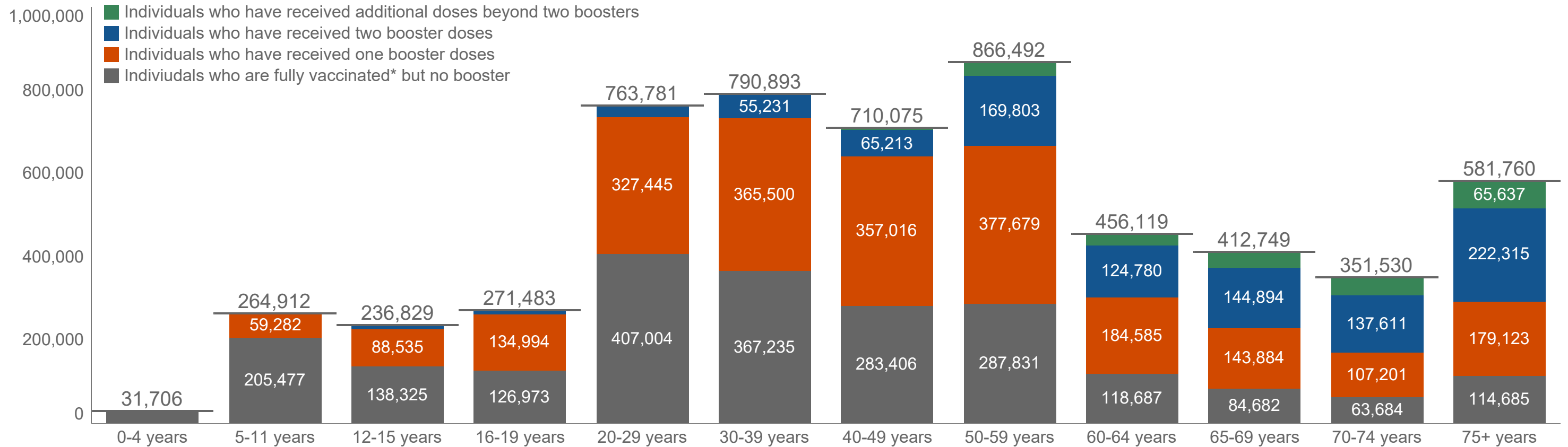
Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *Unvaccinated/unreported vaccination individuals: This is the population estimate for the 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;2022-10-06://[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

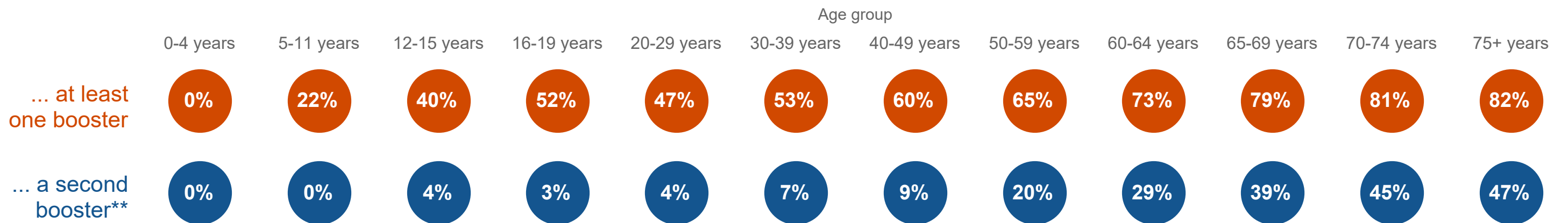
Data as of October 10, 2022

In Massachusetts, 60% 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 October 10, 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	35% of 12,144 residents	>95% of 53 residents	78% 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	37% of 5,666 residents	*	75% of 110,470 residents	3% of 129,026 Berkshire county residents	75% of 129,026 residents
Bristol	46% of 1,045 residents	64% of 13,752 residents	76% of 24,506 residents	61% of 53,995 residents	34% 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	49% 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	75% of 29,651 residents	78% of 27,604 residents	58% of 181,759 residents	63% 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	53% of 122 residents	80% of 1,215 residents	66% 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	51% of 15,087 residents	>95% of 165 residents	70% of 280,615 residents	4% of 465,825 Hampden county residents	68% of 465,825 residents
Hampshire	51% of 199 residents	49% of 10,709 residents	52% of 4,398 residents	48% of 11,248 residents	40% of 6,930 residents	>95% of 43 residents	74% of 128,781 residents	3% of 162,308 Hampshire county residents	72% 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 October 10, 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	79% of 81,692 residents	>95% of 380 residents	80% of 1,110,235 residents	4% of 1,632,002 Middlesex county residents	82% of 1,632,002 residents
Nantucket	*	77% 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	75% of 88,772 residents	75% 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	81% of 725,981 residents
Plymouth	35% of 893 residents	67% of 7,962 residents	80% of 48,249 residents	67% of 23,417 residents	43% of 35,840 residents	61% of 220 residents	74% 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	60% of 37,543 residents	>95% of 357 residents	70% 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	52% of 37,582 residents	>95% of 145 residents	71% of 620,810 residents	3% of 862,111 Worcester county residents	72% 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	67% of 878,944 residents	62% of 326,050 residents	>95% of 1,841 residents	77% of 4,826,116 residents	4% of 7,029,917 MA residents	79% of 7,029,917 residents

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Individuals Fully Vaccinated

Data as of October 10, 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	4% of 8,117 residents	42% of 12,225 residents	73% of 7,999 residents	81% of 8,444 residents	72% of 22,109 residents	84% of 20,313 residents	80% of 21,363 residents	82% of 34,083 residents	88% of 21,351 residents	88% of 21,806 residents	91% of 19,831 residents	95% of 31,352 residents	79% of 228,996 residents
Berkshire	5% of 5,429 residents	54% of 8,296 residents	73% of 5,380 residents	68% of 6,484 residents	65% of 15,369 residents	79% of 13,757 residents	78% of 13,736 residents	80% of 19,125 residents	87% of 10,525 residents	89% of 9,518 residents	95% 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	87% of 1,574 residents	89% of 1,929 residents	86% of 20,600 residents
Essex	7% 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	92% of 56,226 residents	94% of 46,143 residents	>95% of 36,776 residents	92% of 60,087 residents	76% of 809,829 residents
Franklin	7% of 3,011 residents	45% of 4,819 residents	71% of 2,910 residents	87% of 2,764 residents	69% of 7,572 residents	75% of 8,732 residents	74% of 8,315 residents	79% of 10,333 residents	84% of 6,159 residents	91% of 5,875 residents	>95% of 4,581 residents	91% 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	62% 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	89% of 34,534 residents	68% of 465,825 residents
Hampshire	13% of 5,278 residents	63% of 8,930 residents	81% of 5,934 residents	37% of 16,019 residents	46% of 33,434 residents	82% of 16,604 residents	83% of 16,047 residents	86% of 20,206 residents	94% of 10,664 residents	>95% of 9,895 residents	>95% of 7,914 residents	>95% of 11,383 residents	72% 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 October 10, 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	16% of 83,667 residents	68% of 121,734 residents	90% of 73,083 residents	79% of 82,715 residents	77% of 242,436 residents	85% of 242,118 residents	88% 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	92% of 2,184 residents	91% of 2,082 residents	87% of 945 residents	91% of 764 residents	95% of 562 residents	78% of 847 residents	82% of 14,255 residents
Norfolk	14% 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	81% of 725,981 residents
Plymouth	5% of 27,514 residents	42% of 42,518 residents	70% of 26,597 residents	78% of 27,177 residents	69% of 61,517 residents	76% of 61,280 residents	76% of 65,393 residents	82% of 81,528 residents	89% of 38,334 residents	94% of 31,886 residents	>95% of 26,374 residents	93% of 40,701 residents	74% of 530,819 residents
Suffolk	8% of 40,171 residents	52% of 47,420 residents	86% of 26,325 residents	58% of 46,527 residents	77% of 176,345 residents	81% of 145,860 residents	87% of 88,768 residents	87% of 87,549 residents	88% 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	5% 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	88% of 58,820 residents	92% of 46,033 residents	>95% of 35,450 residents	88% of 57,952 residents	72% 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	9% 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	84% of 852,990 residents	87% of 980,162 residents	92% of 464,409 residents	>95% of 383,903 residents	>95% of 307,883 residents	93% of 509,277 residents	79% of 7,029,917 residents

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Individuals who have Received Booster Doses

Data as of October 10, 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 526 residents	58% of 2,264 residents	37% of 5,270 residents	47% of 7,975 residents	69% of 4,207 residents	40% of 100 residents	67% of 154,099 residents	1% of 181,771 Barnstable county residents	63% of 181,771 residents
Berkshire	35% of 85 residents	53% of 1,406 residents	45% of 2,609 residents	44% of 4,121 residents	63% of 2,112 residents	*	64% of 83,129 residents	1% of 96,962 Berkshire county residents	61% of 96,962 residents
Bristol	31% of 483 residents	53% of 8,805 residents	43% of 18,529 residents	40% of 33,078 residents	62% of 10,867 residents	35% of 175 residents	57% of 295,755 residents	1% of 383,346 Bristol county residents	54% of 383,346 residents
Dukes	57% of 108 residents	65% of 171 residents	44% of 863 residents	41% of 922 residents	65% of 397 residents	*	67% of 13,526 residents	2% of 17,719 Dukes county residents	60% of 17,719 residents
Essex	36% of 376 residents	61% of 22,095 residents	46% of 21,653 residents	42% of 104,916 residents	67% of 16,618 residents	46% of 206 residents	65% of 428,320 residents	1% of 619,467 Essex county residents	58% of 619,467 residents
Franklin	*	56% of 973 residents	48% of 646 residents	50% of 1,828 residents	72% of 1,041 residents	*	67% of 46,749 residents	1% of 53,331 Franklin county residents	65% of 53,331 residents
Hampden	36% of 377 residents	54% of 8,572 residents	48% of 21,542 residents	41% of 60,566 residents	62% of 7,646 residents	41% of 190 residents	61% of 196,621 residents	2% of 314,888 Hampden county residents	54% of 314,888 residents
Hampshire	57% of 102 residents	59% of 5,299 residents	55% of 2,283 residents	55% of 5,438 residents	74% of 2,738 residents	*	71% of 95,364 residents	1% of 116,246 Hampshire county residents	68% of 116,246 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 October 10, 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 996 residents	64% of 159,799 residents	52% of 60,721 residents	46% of 105,456 residents	73% of 64,784 residents	49% of 502 residents	69% of 885,767 residents	1% of 1,336,782 Middlesex county residents	65% of 1,336,782 residents
Nantucket	*	57% of 210 residents	35% of 978 residents	27% of 1,920 residents	64% of 155 residents	*	61% of 7,525 residents	1% of 11,745 Nantucket county residents	50% of 11,745 residents
Norfolk	40% of 380 residents	67% of 66,383 residents	53% of 37,791 residents	52% of 26,234 residents	73% of 30,079 residents	50% of 234 residents	68% of 405,604 residents	1% of 585,291 Norfolk county residents	65% of 585,291 residents
Plymouth	36% of 309 residents	61% of 5,328 residents	43% of 38,525 residents	46% of 15,612 residents	64% of 15,472 residents	42% of 134 residents	63% of 304,542 residents	1% of 393,103 Plymouth county residents	59% of 393,103 residents
Suffolk	42% of 632 residents	62% of 64,324 residents	53% of 108,411 residents	47% of 131,716 residents	71% of 22,573 residents	49% of 604 residents	65% of 249,006 residents	1% of 608,974 Suffolk county residents	57% of 608,974 residents
Worcester	33% of 546 residents	61% of 33,102 residents	46% of 27,114 residents	42% of 73,817 residents	67% of 19,438 residents	47% of 219 residents	63% of 441,460 residents	1% of 617,424 Worcester county residents	58% of 617,424 residents
Unknown/ Unspecified**	1% of 5,270 AI/AN residents	2% of 392,260 Asian residents	1% of 354,434 Black residents	1% of 585,718 Hispanic residents	1% of 201,639 Multi-race residents	1% of 2,592 NH/PI residents	1% of 3,731,897 White residents	0% of 5,522,255 MA residents	1% of 5,522,255 residents
Massachusetts	39% of 5,270 residents	62% of 392,260 residents	49% of 354,434 residents	44% of 585,718 residents	70% of 201,639 residents	45% of 2,592 residents	64% of 3,731,897 residents	1% of 5,522,255 MA residents	60% of 5,522,255 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 October 10, 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	15% of 5,133 residents	32% of 5,864 residents	50% of 6,816 residents	42% of 15,997 residents	45% of 16,981 residents	53% of 17,138 residents	61% of 27,800 residents	72% of 18,817 residents	79% of 19,225 residents	83% of 17,994 residents	85% of 29,694 residents	63% of 181,771 residents
Berkshire	16% of 4,455 residents	38% of 3,938 residents	52% of 4,405 residents	43% of 9,947 residents	49% of 10,849 residents	58% of 10,667 residents	64% of 15,255 residents	73% of 9,190 residents	80% of 8,467 residents	80% of 7,587 residents	82% of 11,935 residents	61% of 96,962 residents
Bristol	14% of 13,402 residents	27% of 16,820 residents	44% of 19,176 residents	39% of 44,333 residents	41% of 48,916 residents	49% of 51,075 residents	57% of 65,561 residents	67% of 33,558 residents	73% of 28,845 residents	76% of 23,781 residents	77% of 36,868 residents	54% of 383,346 residents
Dukes	11% of 720 residents	42% of 763 residents	53% of 712 residents	35% of 1,966 residents	44% of 2,647 residents	55% of 2,278 residents	66% of 2,637 residents	77% of 1,419 residents	82% of 1,430 residents	85% of 1,364 residents	93% of 1,722 residents	60% of 17,719 residents
Essex	18% of 32,110 residents	37% of 30,758 residents	52% of 32,612 residents	44% of 72,691 residents	49% of 81,922 residents	57% of 80,676 residents	64% of 100,565 residents	72% of 51,530 residents	78% of 43,602 residents	80% of 35,084 residents	81% of 55,004 residents	58% of 619,467 residents
Franklin	22% of 2,158 residents	44% of 2,060 residents	51% of 2,413 residents	47% of 5,224 residents	54% of 6,587 residents	62% of 6,164 residents	67% of 8,150 residents	74% of 5,150 residents	80% of 5,328 residents	87% of 4,499 residents	84% of 5,400 residents	65% of 53,331 residents
Hampden	12% of 12,914 residents	28% of 14,584 residents	42% of 16,019 residents	38% of 38,030 residents	42% of 40,882 residents	50% of 39,959 residents	59% of 50,308 residents	69% of 27,235 residents	76% of 24,117 residents	78% of 19,714 residents	79% of 30,617 residents	54% of 314,888 residents
Hampshire	34% of 5,666 residents	54% of 4,823 residents	56% of 5,916 residents	53% of 15,301 residents	60% of 13,653 residents	68% of 13,370 residents	71% of 17,307 residents	77% of 10,040 residents	83% of 9,797 residents	87% of 8,483 residents	88% of 11,206 residents	68% of 116,246 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 October 10, 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	29% of 82,194 residents	50% of 66,112 residents	61% of 65,496 residents	53% of 185,811 residents	61% of 205,199 residents	68% of 181,137 residents	72% of 196,668 residents	77% of 94,495 residents	83% of 78,855 residents	84% of 64,613 residents	85% of 103,119 residents	65% of 1,336,782 residents
Nantucket	11% of 458 residents	31% of 486 residents	43% of 489 residents	26% of 1,644 residents	37% of 2,056 residents	51% of 2,000 residents	60% of 1,895 residents	70% of 823 residents	78% of 694 residents	81% of 532 residents	84% of 657 residents	50% of 11,745 residents
Norfolk	26% of 36,209 residents	47% of 29,953 residents	62% of 30,650 residents	54% of 71,003 residents	60% of 80,178 residents	68% of 76,700 residents	71% of 92,702 residents	77% of 45,045 residents	83% of 37,655 residents	84% of 30,319 residents	85% of 49,734 residents	65% of 585,291 residents
Plymouth	13% of 17,912 residents	32% of 18,733 residents	51% of 21,255 residents	45% of 42,598 residents	48% of 46,522 residents	56% of 49,989 residents	63% of 67,153 residents	72% of 34,152 residents	79% of 29,950 residents	81% of 25,436 residents	83% of 37,985 residents	59% of 393,103 residents
Suffolk	22% of 24,639 residents	35% of 22,529 residents	44% of 26,787 residents	45% of 136,539 residents	57% of 118,315 residents	60% of 76,952 residents	65% of 76,357 residents	73% of 35,152 residents	78% of 29,401 residents	81% of 23,164 residents	83% of 35,831 residents	57% of 608,974 residents
Worcester	16% of 30,010 residents	36% of 30,363 residents	52% of 33,141 residents	45% of 75,669 residents	48% of 82,620 residents	57% of 82,448 residents	64% of 101,992 residents	72% of 51,488 residents	80% of 42,579 residents	81% of 33,898 residents	83% of 50,948 residents	58% of 617,424 residents
Unknown/ Unspecified**	0% of 272,436 MA residents 5-11 Years	0% of 250,857 MA residents 12-15 Years	1% of 274,722 MA residents 16-19 Years	3% of 767,573 MA residents 20-29 Years	2% of 791,901 MA residents 30-39 Years	1% of 712,653 MA residents 40-49 Years	1% of 848,152 MA residents 50-59 Years	1% of 429,573 MA residents 60-64 Years	1% of 368,139 MA residents 65-69 Years	1% of 302,649 MA residents 70-74 Years	1% of 471,872 MA residents 75+ Years	1% of 5,522,255 residents
Massachusetts	22% of 272,436 residents	40% of 250,857 residents	52% of 274,722 residents	47% of 767,573 residents	53% of 791,901 residents	60% of 712,653 residents	65% of 848,152 residents	73% of 429,573 residents	79% of 368,139 residents	81% of 302,649 residents	82% of 471,872 residents	60% of 5,522,255 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.