



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; November 25, 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 November 28, 2022

Administered (MIIS)* through Monday, November 28, 2022 (Running totals by day)

	November 22, 2022	November 23, 2022	November 24, 2022	November 25, 2022	November 26, 2022	November 27, 2022	November 28, 2022
At least one dose -- number of people who received at least one dose of Moderna, Pfizer, Novavax, or Johnson & Johnson vaccine	6,502,843	6,504,754	6,504,771	6,505,621	6,506,876	6,507,637	6,508,441
Fully vaccinated -- number of people who received a primary series of Moderna, Pfizer, Novavax or Johnson & Johnson vaccine**	5,585,947	5,586,986	5,586,993	5,587,404	5,587,845	5,588,148	5,588,681
First booster doses -- number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,402,872	3,404,536	3,404,546	3,405,261	3,406,198	3,406,759	3,407,600
Second booster doses -- number of people who have received at least 2 booster doses****	1,365,448	1,371,279	1,371,295	1,373,767	1,377,433	1,379,677	1,381,668
Total Doses Administered (MIIS)	16,992,967	17,005,529	17,005,586	17,011,091	17,018,723	17,023,482	17,028,628

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

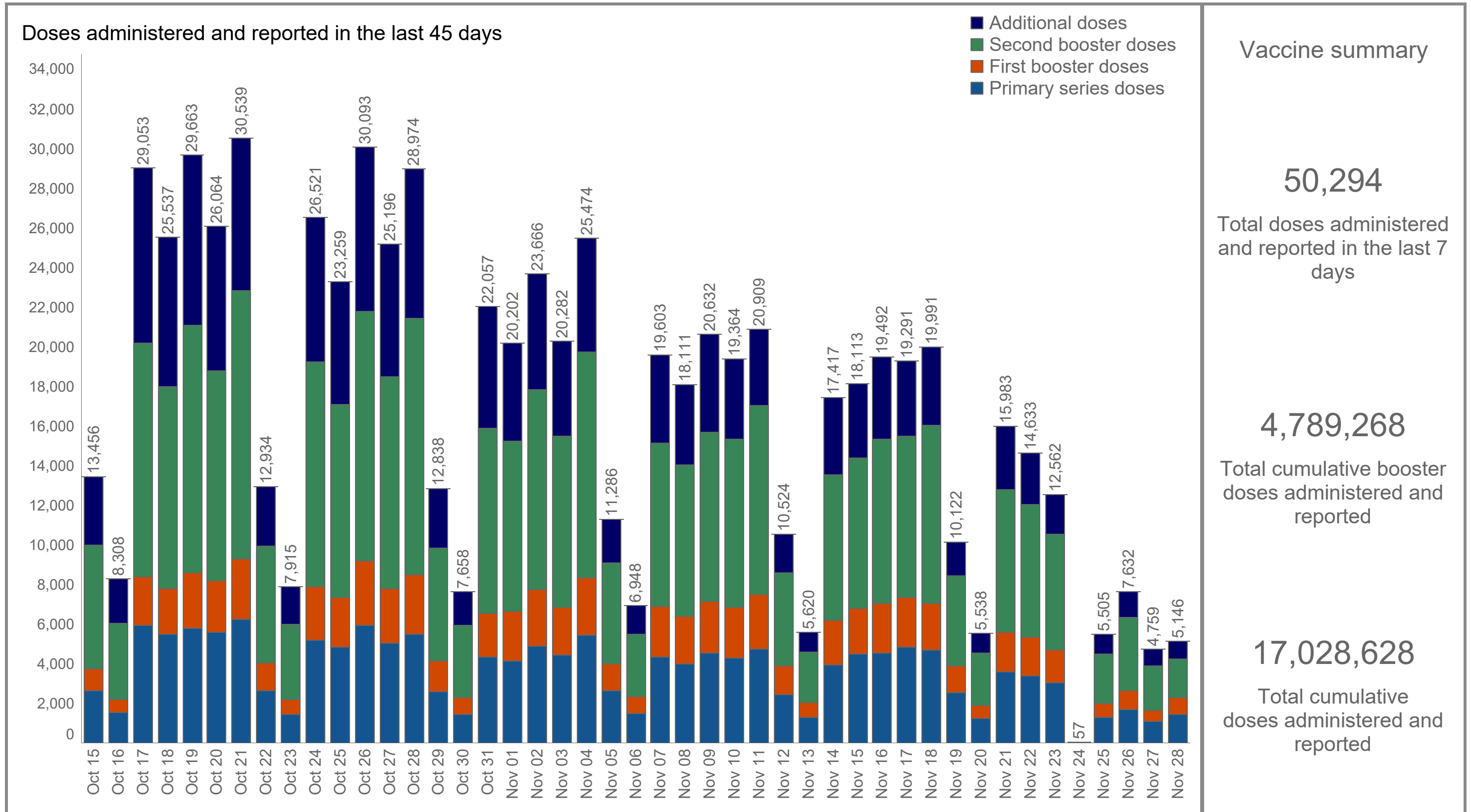
**An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require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

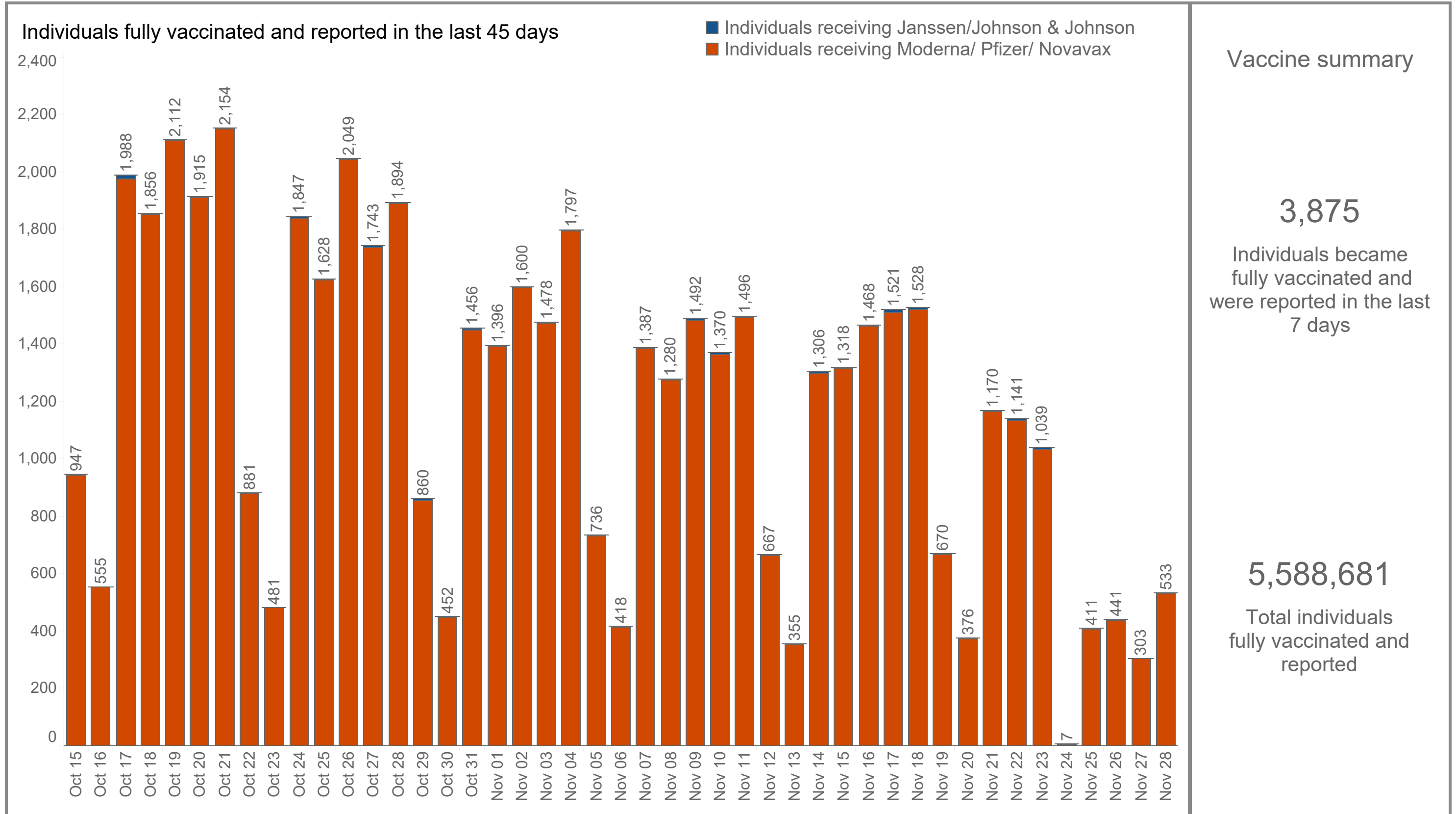
Data as of November 28, 2022



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 November 28, 2022



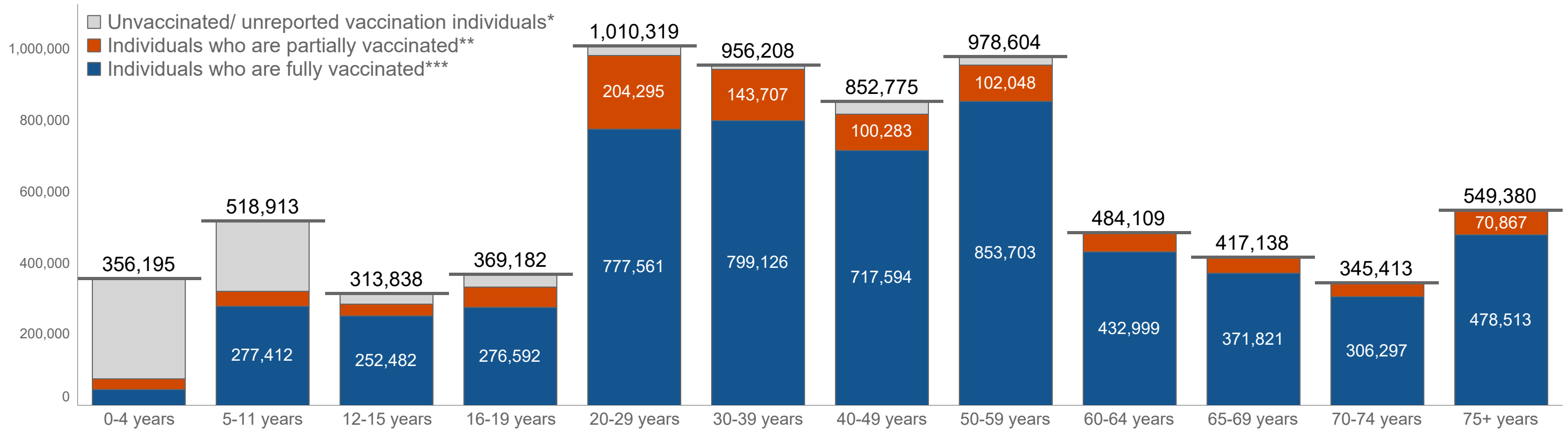
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Individuals with at Least One Dose

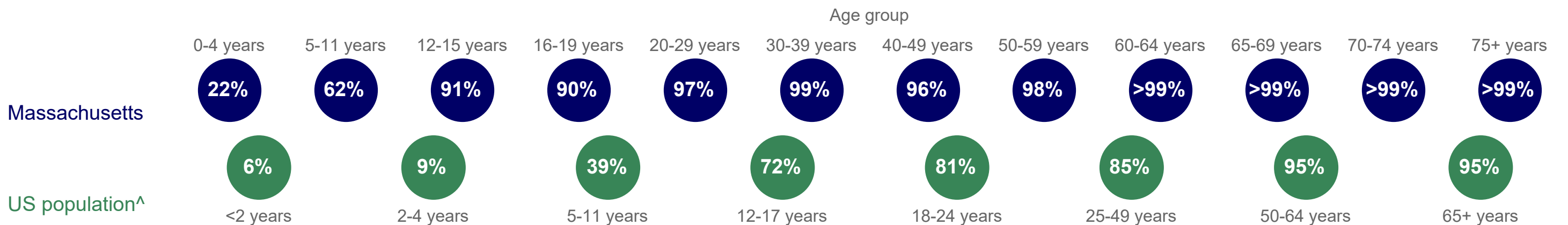
Data as of November 28, 2022

In Massachusetts, 93% of the population has received at least one dose, compared with 81% of the US population.

Vaccination status of individuals by age group (cumulative)



Percent of population with at least one dose



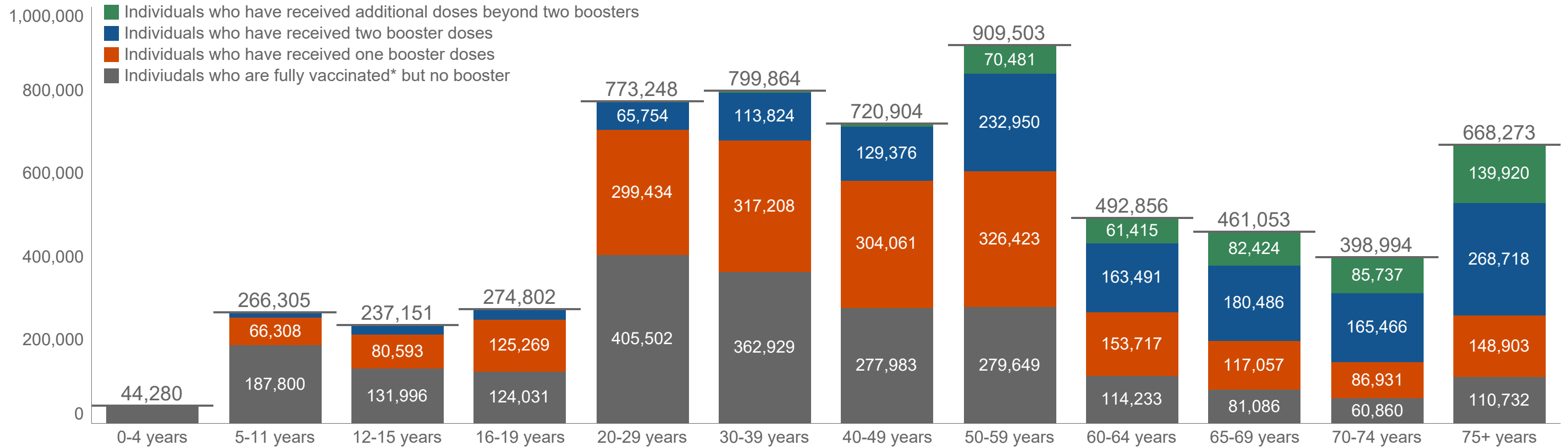
Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *Unvaccinated/unreported vaccination individuals: This is the population estimate for the 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;2022-11-25://[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

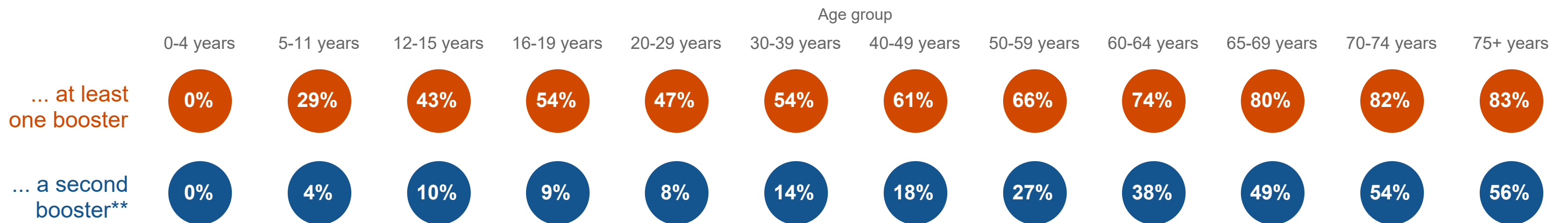
Data as of November 28, 2022

In Massachusetts, 61% of those fully vaccinated have received a booster dose.

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 November 28, 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	80% of 6,644 residents	>95% of 7,637 residents	37% of 12,144 residents	>95% of 53 residents	79% of 198,117 residents	3% of 228,996 Barnstable county residents	80% of 228,996 residents
Berkshire	55% of 153 residents	72% of 1,978 residents	64% of 4,132 residents	63% of 6,619 residents	39% of 5,666 residents	*	76% of 110,470 residents	3% of 129,026 Berkshire county residents	76% of 129,026 residents
Bristol	46% of 1,045 residents	64% of 13,752 residents	76% of 24,506 residents	62% of 53,995 residents	36% of 32,048 residents	>95% of 148 residents	66% of 453,707 residents	3% of 579,200 Bristol county residents	67% of 579,200 residents
Dukes	52% of 219 residents	>95% of 181 residents	>95% of 809 residents	>95% of 452 residents	22% of 1,899 residents	*	80% of 17,031 residents	8% of 20,600 Dukes county residents	87% of 20,600 residents
Essex	47% of 808 residents	75% of 29,651 residents	79% of 27,604 residents	58% of 181,759 residents	67% of 26,257 residents	>95% of 155 residents	80% of 543,595 residents	3% of 809,829 Essex county residents	77% of 809,829 residents
Franklin	52% of 122 residents	83% of 1,215 residents	66% of 985 residents	56% of 3,329 residents	34% of 3,207 residents	*	76% of 62,163 residents	3% of 71,029 Franklin county residents	76% of 71,029 residents
Hampden	58% of 646 residents	71% of 12,176 residents	60% of 36,442 residents	51% of 120,694 residents	54% of 15,087 residents	>95% of 165 residents	71% of 280,615 residents	4% of 465,825 Hampden county residents	68% of 465,825 residents
Hampshire	52% of 199 residents	51% of 10,709 residents	52% of 4,398 residents	49% of 11,248 residents	42% of 6,930 residents	>95% of 43 residents	75% of 128,781 residents	3% of 162,308 Hampshire county residents	73% 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 November 28, 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	77% of 212,123 residents	73% of 84,324 residents	75% of 141,738 residents	83% of 81,692 residents	>95% of 380 residents	81% of 1,110,235 residents	4% of 1,632,002 Middlesex county residents	83% of 1,632,002 residents
Nantucket	*	77% of 274 residents	>95% of 1,025 residents	89% of 2,175 residents	28% of 615 residents	*	75% of 10,149 residents	7% of 14,255 Nantucket county residents	83% of 14,255 residents
Norfolk	51% of 736 residents	76% of 88,772 residents	75% of 50,563 residents	71% of 37,460 residents	>95% of 29,540 residents	>95% of 151 residents	79% of 518,759 residents	3% of 725,981 Norfolk county residents	82% of 725,981 residents
Plymouth	34% of 893 residents	67% of 7,962 residents	81% of 48,249 residents	67% of 23,417 residents	45% of 35,840 residents	60% of 220 residents	74% of 414,238 residents	2% of 530,819 Plymouth county residents	75% of 530,819 residents
Suffolk	51% of 1,235 residents	80% of 81,295 residents	77% of 142,086 residents	75% of 177,973 residents	63% of 37,543 residents	>95% of 357 residents	71% of 357,446 residents	4% of 797,936 Suffolk county residents	77% of 797,936 residents
Worcester	46% of 1,183 residents	71% of 46,778 residents	61% of 45,164 residents	68% of 110,448 residents	54% of 37,582 residents	>95% of 145 residents	72% of 620,810 residents	2% 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	78% of 510,096 residents	75% of 476,930 residents	67% of 878,944 residents	65% of 326,050 residents	>95% of 1,841 residents	78% of 4,826,116 residents	3% of 7,029,917 MA residents	79% of 7,029,917 residents

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Individuals Fully Vaccinated

Data as of November 28, 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	6% of 8,117 residents	43% of 12,225 residents	74% of 7,999 residents	81% of 8,444 residents	73% of 22,109 residents	84% of 20,313 residents	81% of 21,363 residents	82% of 34,083 residents	89% of 21,351 residents	90% of 21,806 residents	92% of 19,831 residents	>95% of 31,352 residents	80% of 228,996 residents
Berkshire	8% of 5,429 residents	55% of 8,296 residents	74% of 5,380 residents	68% of 6,484 residents	65% of 15,369 residents	80% of 13,757 residents	78% of 13,736 residents	81% of 19,125 residents	88% of 10,525 residents	90% of 9,518 residents	>95% of 8,017 residents	90% of 13,390 residents	76% of 129,026 residents
Bristol	5% of 30,091 residents	30% of 45,540 residents	62% of 27,527 residents	66% of 29,121 residents	60% of 74,766 residents	67% of 73,958 residents	70% of 73,224 residents	77% of 85,414 residents	86% of 39,125 residents	92% of 31,728 residents	93% of 25,741 residents	87% of 42,964 residents	67% of 579,200 residents
Dukes	8% of 882 residents	58% 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	85% of 3,147 residents	84% of 1,702 residents	81% of 1,801 residents	88% of 1,574 residents	91% of 1,929 residents	87% of 20,600 residents
Essex	9% of 44,345 residents	51% of 64,079 residents	80% of 38,871 residents	79% of 41,764 residents	72% of 102,396 residents	81% of 101,407 residents	82% of 99,259 residents	85% of 118,474 residents	92% of 56,226 residents	>95% of 46,143 residents	>95% of 36,776 residents	93% of 60,087 residents	77% of 809,829 residents
Franklin	10% of 3,011 residents	46% of 4,819 residents	72% of 2,910 residents	89% of 2,764 residents	70% of 7,572 residents	76% of 8,732 residents	75% of 8,315 residents	79% of 10,333 residents	85% of 6,159 residents	92% of 5,875 residents	>95% of 4,581 residents	92% of 5,954 residents	76% of 71,029 residents
Hampden	3% of 24,918 residents	35% of 38,042 residents	64% of 23,128 residents	62% of 26,022 residents	59% of 65,472 residents	69% of 59,405 residents	75% of 53,671 residents	81% of 62,992 residents	88% of 31,187 residents	94% of 25,936 residents	>95% of 20,519 residents	90% of 34,534 residents	68% of 465,825 residents
Hampshire	18% of 5,278 residents	65% of 8,930 residents	82% of 5,934 residents	37% of 16,019 residents	47% of 33,434 residents	83% of 16,604 residents	84% of 16,047 residents	86% of 20,206 residents	>95% of 10,664 residents	>95% of 9,895 residents	>95% of 7,914 residents	>95% of 11,383 residents	73% of 162,308 residents

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Individuals Fully Vaccinated

Data as of November 28, 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	21% of 83,667 residents	69% of 121,734 residents	91% of 73,083 residents	80% of 82,715 residents	78% of 242,436 residents	86% of 242,118 residents	88% of 206,995 residents	89% of 222,367 residents	94% of 100,804 residents	>95% of 81,083 residents	>95% of 64,640 residents	95% of 110,359 residents	83% of 1,632,002 residents
Nantucket	*	46% of 1,012 residents	87% of 562 residents	>95% of 507 residents	>95% of 1,722 residents	94% of 2,214 residents	92% of 2,184 residents	92% of 2,082 residents	88% of 945 residents	93% of 764 residents	>95% of 562 residents	82% of 847 residents	83% of 14,255 residents
Norfolk	19% of 37,515 residents	65% of 56,630 residents	86% of 35,180 residents	85% of 36,428 residents	79% of 90,767 residents	85% of 95,497 residents	83% of 93,243 residents	88% of 105,961 residents	94% of 48,444 residents	>95% of 39,164 residents	>95% of 31,323 residents	90% of 55,829 residents	82% of 725,981 residents
Plymouth	7% of 27,514 residents	43% of 42,518 residents	71% of 26,597 residents	79% of 27,177 residents	70% of 61,517 residents	77% of 61,280 residents	77% of 65,393 residents	83% of 81,528 residents	90% of 38,334 residents	95% of 31,886 residents	>95% of 26,374 residents	95% of 40,701 residents	75% of 530,819 residents
Suffolk	12% of 40,171 residents	53% of 47,420 residents	86% of 26,325 residents	58% of 46,527 residents	79% of 176,345 residents	82% of 145,860 residents	87% of 88,768 residents	88% of 87,549 residents	88% of 40,123 residents	92% of 32,272 residents	>95% of 24,580 residents	86% of 41,995 residents	77% of 797,936 residents
Worcester	7% of 45,082 residents	45% of 68,600 residents	73% of 42,016 residents	71% of 46,659 residents	67% of 114,476 residents	75% of 111,763 residents	77% of 108,360 residents	81% of 126,900 residents	88% of 58,820 residents	93% of 46,033 residents	>95% of 35,450 residents	89% 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	12% of 356,875 residents	53% of 521,112 residents	80% of 316,296 residents	74% of 371,285 residents	77% of 1,010,451 residents	84% of 955,267 residents	84% of 852,990 residents	87% of 980,162 residents	93% of 464,409 residents	>95% of 383,903 residents	>95% of 307,883 residents	94% of 509,277 residents	79% of 7,029,917 residents

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Individuals who have Received Booster Doses

Data as of November 28, 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	56% of 531 residents	59% of 2,265 residents	38% of 5,308 residents	49% of 8,122 residents	71% of 4,488 residents	41% of 95 residents	68% of 156,353 residents	1% of 184,321 Barnstable county residents	65% of 184,321 residents
Berkshire	39% of 84 residents	55% of 1,418 residents	46% of 2,630 residents	47% of 4,152 residents	66% of 2,237 residents	*	65% of 84,186 residents	1% of 98,124 Berkshire county residents	63% of 98,124 residents
Bristol	32% of 484 residents	53% of 8,868 residents	44% of 18,682 residents	41% of 33,437 residents	64% of 11,612 residents	36% of 177 residents	58% of 298,541 residents	1% of 387,132 Bristol county residents	55% of 387,132 residents
Dukes	57% of 114 residents	66% of 174 residents	44% of 866 residents	43% of 941 residents	67% of 418 residents	*	68% of 13,661 residents	2% of 17,879 Dukes county residents	61% of 17,879 residents
Essex	35% of 376 residents	62% of 22,247 residents	48% of 21,826 residents	43% of 106,115 residents	70% of 17,565 residents	47% of 210 residents	66% of 432,702 residents	1% of 626,003 Essex county residents	60% of 626,003 residents
Franklin	*	57% of 1,007 residents	50% of 646 residents	51% of 1,863 residents	73% of 1,098 residents	*	69% of 47,333 residents	1% of 53,985 Franklin county residents	66% of 53,985 residents
Hampden	37% of 378 residents	55% of 8,606 residents	49% of 21,788 residents	43% of 61,038 residents	65% of 8,125 residents	44% of 193 residents	62% of 198,941 residents	2% of 318,124 Hampden county residents	55% of 318,124 residents
Hampshire	55% of 103 residents	61% of 5,437 residents	56% of 2,306 residents	56% of 5,498 residents	77% of 2,926 residents	*	72% of 96,610 residents	1% of 117,884 Hampshire county residents	69% of 117,884 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 November 28, 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	41% of 990 residents	65% of 162,387 residents	54% of 61,374 residents	48% of 106,375 residents	75% of 67,689 residents	49% of 496 residents	71% of 897,643 residents	1% of 1,356,018 Middlesex county residents	66% of 1,356,018 residents
Nantucket	*	60% of 210 residents	36% of 986 residents	28% of 1,931 residents	68% of 170 residents	*	63% of 7,659 residents	1% of 11,901 Nantucket county residents	51% of 11,901 residents
Norfolk	40% of 378 residents	68% of 67,402 residents	54% of 38,129 residents	54% of 26,517 residents	75% of 31,436 residents	50% of 230 residents	69% of 410,477 residents	1% of 593,122 Norfolk county residents	66% of 593,122 residents
Plymouth	37% of 305 residents	62% of 5,351 residents	44% of 38,917 residents	47% of 15,775 residents	66% of 16,150 residents	42% of 133 residents	64% of 307,532 residents	1% of 397,287 Plymouth county residents	60% of 397,287 residents
Suffolk	43% of 631 residents	62% of 65,432 residents	55% of 109,298 residents	49% of 133,085 residents	73% of 23,471 residents	49% of 606 residents	66% of 252,613 residents	1% of 616,847 Suffolk county residents	58% of 616,847 residents
Worcester	35% of 548 residents	62% of 33,435 residents	48% of 27,445 residents	44% of 74,654 residents	69% of 20,482 residents	47% of 217 residents	64% of 445,475 residents	1% of 623,686 Worcester county residents	60% of 623,686 residents
Unknown/ Unspecified**	1% of 5,268 AI/AN residents	2% of 397,995 Asian residents	1% of 357,518 Black residents	1% of 591,370 Hispanic residents	1% of 211,503 Multi-race residents	1% of 2,585 NH/PI residents	1% of 3,776,586 White residents	0% of 5,588,681 MA residents	1% of 5,588,681 residents
Massachusetts	40% of 5,268 residents	63% of 397,995 residents	51% of 357,518 residents	46% of 591,370 residents	72% of 211,503 residents	46% of 2,585 residents	66% of 3,776,586 residents	1% of 5,588,681 MA residents	61% of 5,588,681 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 November 28, 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	23% of 5,240 residents	36% of 5,892 residents	51% of 6,879 residents	43% of 16,095 residents	46% of 17,097 residents	54% of 17,262 residents	62% of 28,074 residents	73% of 19,075 residents	80% of 19,549 residents	84% of 18,316 residents	86% of 30,320 residents	65% of 184,321 residents
Berkshire	22% of 4,528 residents	41% of 3,964 residents	53% of 4,436 residents	44% of 9,999 residents	50% of 10,941 residents	59% of 10,781 residents	65% of 15,404 residents	75% of 9,285 residents	81% of 8,575 residents	82% of 7,684 residents	84% of 12,104 residents	63% of 98,124 residents
Bristol	19% of 13,803 residents	30% of 16,933 residents	46% of 19,282 residents	40% of 44,696 residents	42% of 49,292 residents	50% of 51,409 residents	58% of 66,011 residents	69% of 33,774 residents	75% of 29,133 residents	77% of 24,055 residents	79% of 37,313 residents	55% of 387,132 residents
Dukes	20% of 736 residents	46% of 767 residents	56% of 715 residents	35% of 1,967 residents	45% of 2,654 residents	56% of 2,285 residents	67% of 2,663 residents	78% of 1,430 residents	82% of 1,456 residents	85% of 1,388 residents	93% of 1,748 residents	61% of 17,879 residents
Essex	24% of 32,726 residents	40% of 30,962 residents	54% of 32,803 residents	45% of 73,319 residents	50% of 82,559 residents	58% of 81,252 residents	65% of 101,172 residents	74% of 51,887 residents	80% of 43,981 residents	82% of 35,466 residents	83% of 55,685 residents	60% of 626,003 residents
Franklin	27% of 2,212 residents	47% of 2,106 residents	52% of 2,449 residents	48% of 5,277 residents	55% of 6,628 residents	64% of 6,205 residents	68% of 8,213 residents	75% of 5,209 residents	81% of 5,385 residents	89% of 4,552 residents	86% of 5,451 residents	66% of 53,985 residents
Hampden	17% of 13,253 residents	31% of 14,707 residents	43% of 16,111 residents	38% of 38,330 residents	43% of 41,213 residents	51% of 40,281 residents	60% of 50,727 residents	70% of 27,484 residents	77% of 24,333 residents	80% of 19,911 residents	80% of 31,028 residents	55% of 318,124 residents
Hampshire	40% of 5,777 residents	59% of 4,849 residents	58% of 5,984 residents	54% of 15,551 residents	61% of 13,797 residents	69% of 13,528 residents	72% of 17,476 residents	79% of 10,154 residents	84% of 9,883 residents	88% of 8,580 residents	89% of 11,367 residents	69% of 117,884 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 November 28, 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	37% of 83,523 residents	53% of 66,589 residents	63% of 65,916 residents	53% of 189,005 residents	62% of 207,831 residents	69% of 182,807 residents	73% of 198,146 residents	79% of 95,204 residents	84% of 79,541 residents	85% of 65,262 residents	86% of 104,526 residents	66% of 1,356,018 residents
Nantucket	16% of 465 residents	34% of 488 residents	44% of 494 residents	27% of 1,648 residents	38% of 2,070 residents	52% of 2,007 residents	61% of 1,923 residents	72% of 829 residents	80% of 713 residents	83% of 548 residents	82% of 694 residents	51% of 11,901 residents
Norfolk	34% of 36,877 residents	51% of 30,187 residents	64% of 30,863 residents	55% of 71,851 residents	61% of 81,023 residents	69% of 77,423 residents	72% of 93,365 residents	78% of 45,353 residents	84% of 37,958 residents	85% of 30,660 residents	86% of 50,317 residents	66% of 593,122 residents
Plymouth	19% of 18,284 residents	35% of 18,876 residents	53% of 21,348 residents	47% of 42,859 residents	49% of 46,924 residents	57% of 50,345 residents	64% of 67,572 residents	73% of 34,472 residents	80% of 30,241 residents	83% of 25,733 residents	84% of 38,582 residents	60% of 397,287 residents
Suffolk	28% of 25,228 residents	39% of 22,642 residents	45% of 27,041 residents	46% of 138,752 residents	58% of 119,433 residents	61% of 77,372 residents	67% of 76,868 residents	75% of 35,404 residents	80% of 29,611 residents	82% of 23,371 residents	84% of 36,218 residents	58% of 616,847 residents
Worcester	22% of 30,618 residents	39% of 30,528 residents	54% of 33,319 residents	46% of 76,301 residents	50% of 83,339 residents	58% of 83,033 residents	65% of 102,635 residents	74% of 51,878 residents	81% of 42,940 residents	82% of 34,227 residents	84% of 51,500 residents	60% of 623,686 residents
Unknown/ Unspecified**	0% of 277,412 MA residents 5-11 Years	0% of 252,482 MA residents 12-15 Years	1% of 276,592 MA residents 16-19 Years	3% of 777,561 MA residents 20-29 Years	2% of 799,126 MA residents 30-39 Years	1% of 717,594 MA residents 40-49 Years	1% of 853,703 MA residents 50-59 Years	1% of 432,999 MA residents 60-64 Years	1% of 371,821 MA residents 65-69 Years	1% of 306,297 MA residents 70-74 Years	1% of 478,513 MA residents 75+ Years	1% of 5,588,681 residents
Massachusetts	29% of 277,412 residents	43% of 252,482 residents	54% of 276,592 residents	47% of 777,561 residents	54% of 799,126 residents	61% of 717,594 residents	66% of 853,703 residents	74% of 432,999 residents	80% of 371,821 residents	82% of 306,297 residents	83% of 478,513 residents	61% of 5,588,681 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.