



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 9, 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 14, 2022

Administered (MIIS)* through Monday, November 14, 2022 (Running totals by day)

	November 8, 2022	November 9, 2022	November 10, 2022	November 11, 2022	November 12, 2022	November 13, 2022	November 14, 2022
At least one dose -- number of people who received at least one dose of Moderna, Pfizer, or Johnson & Johnson vaccine	6,473,220	6,476,101	6,478,881	6,482,180	6,484,086	6,485,150	6,486,588
Fully vaccinated -- number of people who received a primary series of Moderna, Pfizer, or Johnson & Johnson vaccine**	5,569,483	5,570,963	5,572,296	5,573,763	5,574,416	5,574,741	5,575,510
First booster doses -- number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,371,285	3,373,817	3,376,267	3,378,903	3,380,269	3,380,942	3,382,227
Second booster doses -- number of people who have received at least 2 booster doses****	1,266,239	1,274,673	1,282,722	1,291,883	1,296,446	1,298,806	1,302,457
Total Doses Administered (MIIS)	16,768,950	16,789,232	16,807,842	16,828,242	16,838,696	16,844,067	16,853,271

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

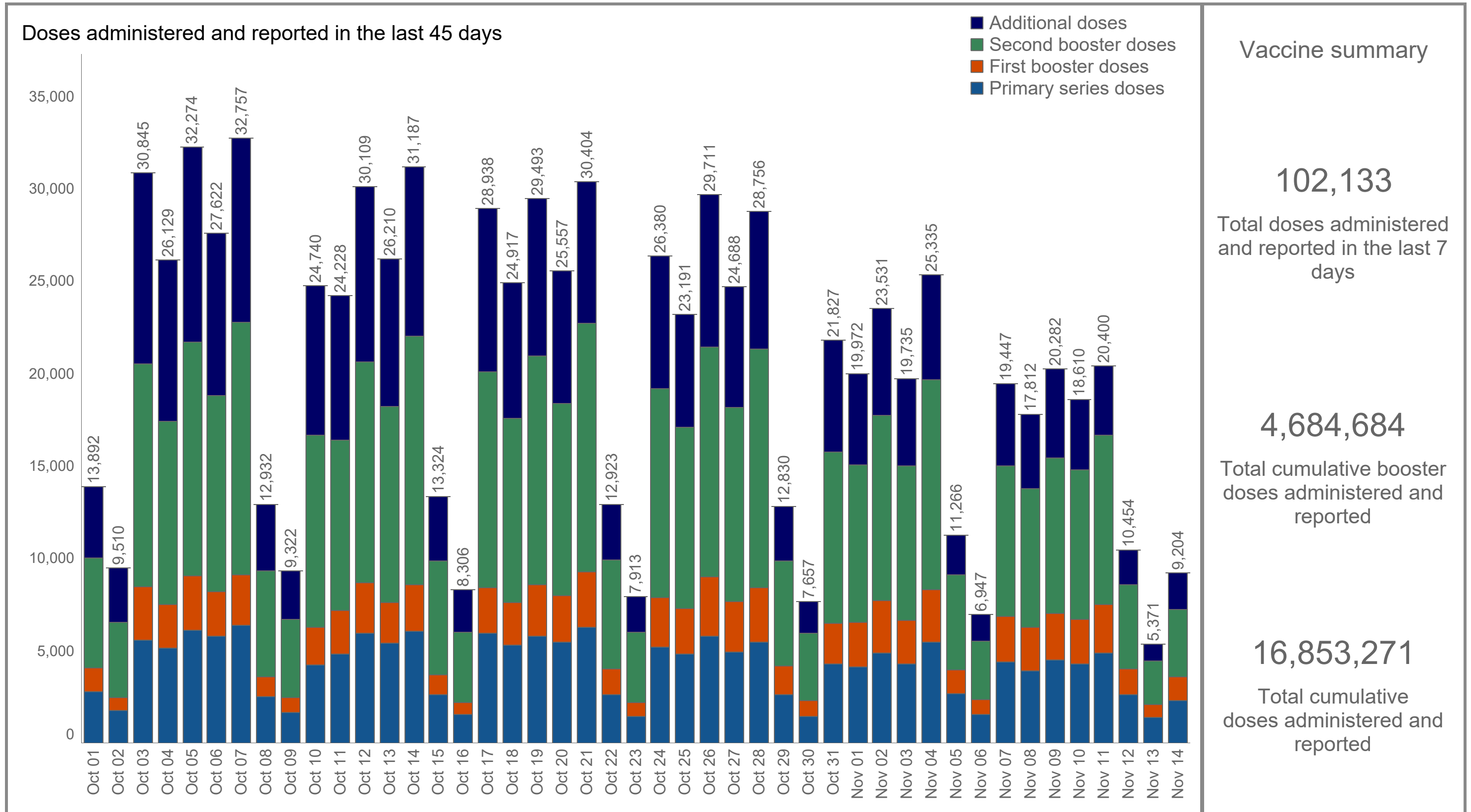
**An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require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

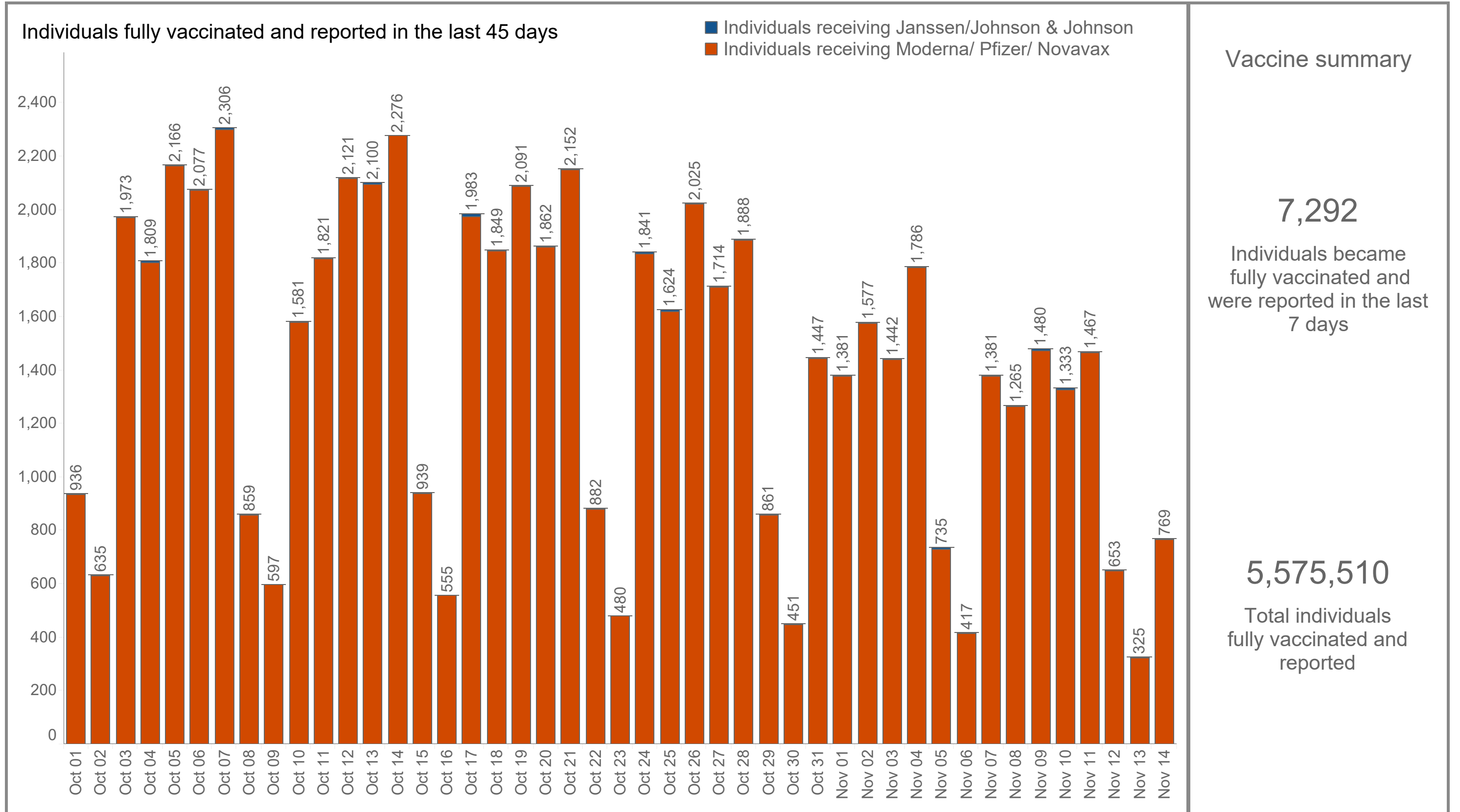
Data as of November 14, 2022



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 14, 2022



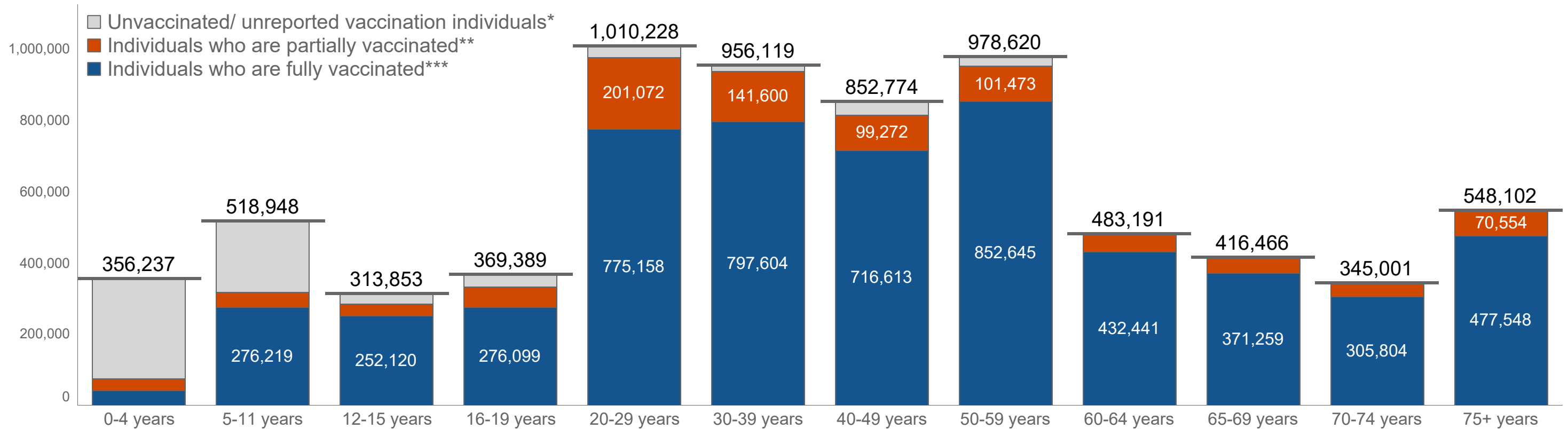
NOTE: Data from MIIS (see "definitions"). Dates reflect the date doses were administered. Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported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

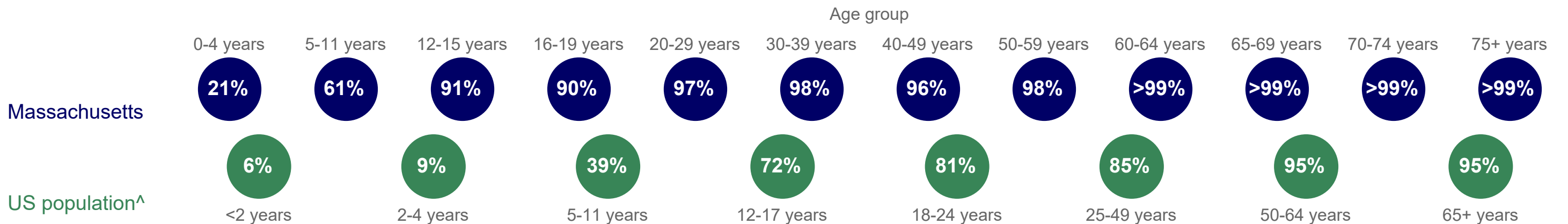
Data as of November 14, 2022

In Massachusetts, 92% 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



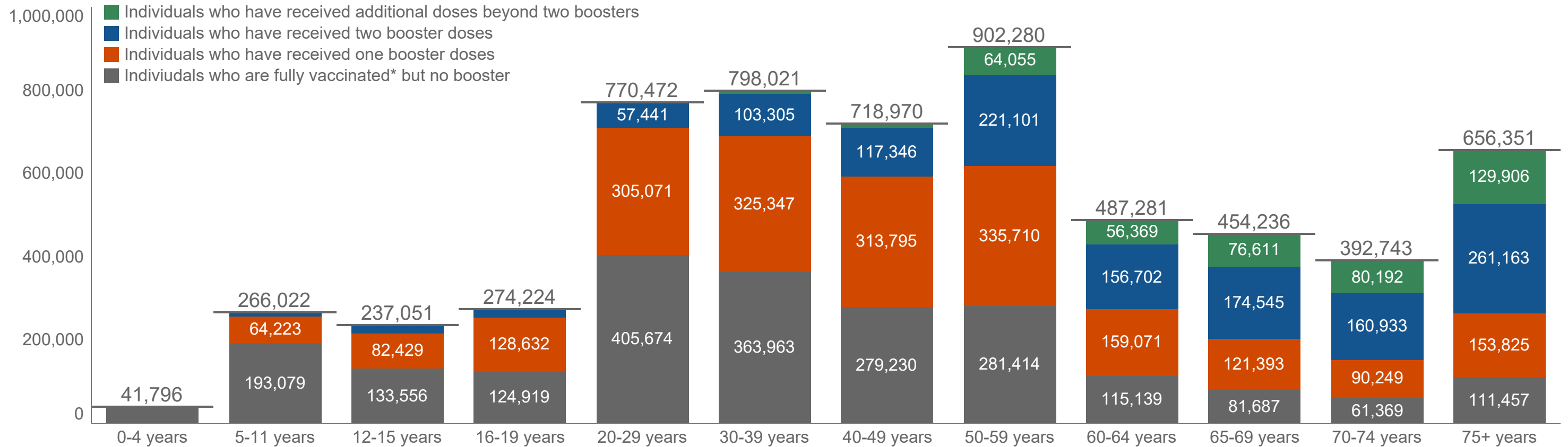
Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *Unvaccinated/unreported vaccination individuals: This is the population estimate for the 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;2022-11-09://[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

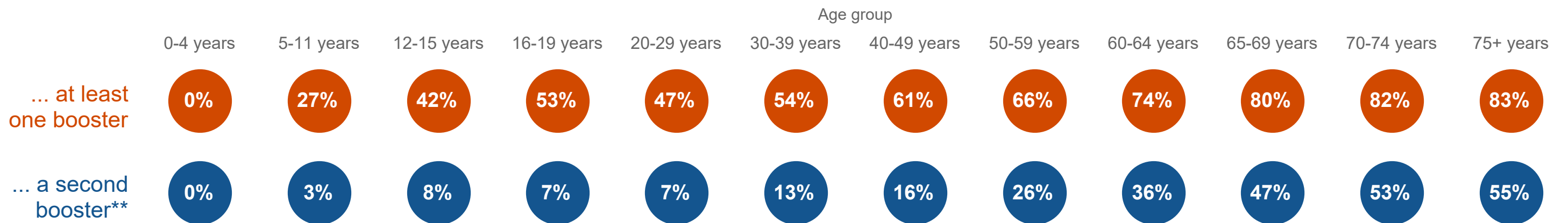
Data as of November 14, 2022

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 14, 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	36% 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	63% 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	51% 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	66% of 26,257 residents	>95% of 155 residents	79% of 543,595 residents	3% of 809,829 Essex county residents	77% of 809,829 residents
Franklin	52% of 122 residents	82% 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	50% of 120,694 residents	53% 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	50% of 199 residents	50% 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	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 November 14, 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	76% of 212,123 residents	73% of 84,324 residents	75% of 141,738 residents	82% 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	27% 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	62% of 37,543 residents	>95% of 357 residents	70% 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	67% 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	64% of 326,050 residents	>95% of 1,841 residents	78% 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 November 14, 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	89% of 21,806 residents	92% of 19,831 residents	>95% of 31,352 residents	80% of 228,996 residents
Berkshire	7% of 5,429 residents	54% of 8,296 residents	74% 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	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	4% of 30,091 residents	30% of 45,540 residents	61% 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	7% 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	90% 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	78% of 41,764 residents	71% 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	9% of 3,011 residents	46% of 4,819 residents	72% of 2,910 residents	88% of 2,764 residents	69% of 7,572 residents	76% of 8,732 residents	74% of 8,315 residents	79% of 10,333 residents	84% of 6,159 residents	92% of 5,875 residents	>95% of 4,581 residents	91% of 5,954 residents	76% of 71,029 residents
Hampden	3% of 24,918 residents	35% of 38,042 residents	63% of 23,128 residents	62% of 26,022 residents	58% of 65,472 residents	69% of 59,405 residents	75% of 53,671 residents	80% 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	17% of 5,278 residents	64% of 8,930 residents	82% of 5,934 residents	37% of 16,019 residents	46% 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	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 November 14, 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	20% of 83,667 residents	68% 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	93% of 2,214 residents	92% of 2,184 residents	92% of 2,082 residents	88% of 945 residents	92% of 764 residents	>95% of 562 residents	81% of 847 residents	83% of 14,255 residents
Norfolk	18% 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	76% 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	11% of 40,171 residents	53% of 47,420 residents	86% of 26,325 residents	58% of 46,527 residents	78% 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	44% of 68,600 residents	73% of 42,016 residents	71% of 46,659 residents	67% of 114,476 residents	74% 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	83% 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 14, 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 526 residents	59% of 2,263 residents	38% of 5,303 residents	48% of 8,099 residents	71% of 4,424 residents	39% of 94 residents	68% of 155,963 residents	1% of 183,866 Barnstable county residents	64% of 183,866 residents
Berkshire	38% of 84 residents	54% of 1,419 residents	46% of 2,622 residents	46% of 4,141 residents	65% of 2,214 residents	*	65% of 83,992 residents	1% of 97,908 Berkshire county residents	63% of 97,908 residents
Bristol	31% of 481 residents	53% of 8,853 residents	43% of 18,637 residents	41% of 33,351 residents	64% of 11,473 residents	36% of 179 residents	58% of 298,036 residents	1% of 386,419 Bristol county residents	55% of 386,419 residents
Dukes	57% of 113 residents	66% of 172 residents	44% of 865 residents	43% of 942 residents	67% of 417 residents	*	68% of 13,640 residents	2% of 17,858 Dukes county residents	61% of 17,858 residents
Essex	35% of 381 residents	62% of 22,207 residents	47% of 21,799 residents	43% of 105,863 residents	69% of 17,372 residents	47% of 210 residents	66% of 431,934 residents	1% of 624,842 Essex county residents	60% of 624,842 residents
Franklin	*	57% of 998 residents	49% of 645 residents	50% of 1,856 residents	73% of 1,094 residents	*	68% of 47,225 residents	1% of 53,859 Franklin county residents	66% of 53,859 residents
Hampden	36% of 377 residents	54% of 8,608 residents	49% of 21,715 residents	42% of 60,924 residents	64% of 8,037 residents	42% of 194 residents	62% of 198,509 residents	2% of 317,511 Hampden county residents	55% of 317,511 residents
Hampshire	56% of 100 residents	60% of 5,396 residents	56% of 2,303 residents	56% of 5,489 residents	77% of 2,899 residents	*	72% of 96,393 residents	1% of 117,579 Hampshire county residents	69% of 117,579 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 14, 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 993 residents	65% of 161,849 residents	53% of 61,245 residents	47% of 106,150 residents	75% of 67,090 residents	48% of 496 residents	70% of 895,588 residents	1% of 1,352,487 Middlesex county residents	66% of 1,352,487 residents
Nantucket	*	59% of 211 residents	36% of 986 residents	28% of 1,930 residents	66% of 166 residents	*	63% of 7,620 residents	1% of 11,862 Nantucket county residents	51% of 11,862 residents
Norfolk	39% of 376 residents	67% of 67,188 residents	54% of 38,072 residents	53% of 26,455 residents	74% of 31,189 residents	50% of 232 residents	69% of 409,618 residents	1% of 591,718 Norfolk county residents	66% of 591,718 residents
Plymouth	36% of 305 residents	62% of 5,351 residents	44% of 38,859 residents	47% of 15,750 residents	65% of 16,025 residents	43% of 132 residents	64% of 307,033 residents	1% of 396,607 Plymouth county residents	60% of 396,607 residents
Suffolk	42% of 630 residents	62% of 65,208 residents	54% of 109,092 residents	48% of 132,760 residents	72% of 23,264 residents	49% of 608 residents	66% of 251,997 residents	1% of 615,293 Suffolk county residents	58% of 615,293 residents
Worcester	34% of 550 residents	62% of 33,342 residents	47% of 27,388 residents	43% of 74,514 residents	69% of 20,248 residents	47% of 219 residents	64% of 444,802 residents	1% of 622,593 Worcester county residents	59% of 622,593 residents
Unknown/ Unspecified**	1% of 5,261 AI/AN residents	2% of 396,682 Asian residents	1% of 356,807 Black residents	1% of 590,014 Hispanic residents	1% of 209,505 Multi-race residents	1% of 2,592 NH/PI residents	1% of 3,768,285 White residents	0% of 5,575,510 MA residents	1% of 5,575,510 residents
Massachusetts	40% of 5,261 residents	63% of 396,682 residents	50% of 356,807 residents	45% of 590,014 residents	71% of 209,505 residents	46% of 2,592 residents	65% of 3,768,285 residents	1% of 5,575,510 MA residents	61% of 5,575,510 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 14, 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	21% of 5,207 residents	35% of 5,881 residents	51% of 6,870 residents	43% of 16,071 residents	45% of 17,068 residents	54% of 17,223 residents	62% of 28,030 residents	73% of 19,023 residents	80% of 19,505 residents	83% of 18,285 residents	86% of 30,227 residents	64% of 183,866 residents
Berkshire	21% of 4,515 residents	41% of 3,958 residents	53% of 4,428 residents	44% of 9,978 residents	50% of 10,925 residents	59% of 10,765 residents	65% of 15,377 residents	74% of 9,270 residents	81% of 8,558 residents	81% of 7,675 residents	84% of 12,074 residents	63% of 97,908 residents
Bristol	18% of 13,720 residents	29% of 16,907 residents	45% of 19,262 residents	40% of 44,596 residents	42% of 49,216 residents	50% of 51,342 residents	58% of 65,948 residents	68% of 33,746 residents	75% of 29,076 residents	77% of 24,013 residents	79% of 37,256 residents	55% of 386,419 residents
Dukes	18% of 733 residents	45% of 766 residents	55% of 712 residents	35% of 1,964 residents	44% of 2,653 residents	56% of 2,284 residents	67% of 2,662 residents	78% of 1,429 residents	82% of 1,458 residents	85% of 1,387 residents	94% of 1,744 residents	61% of 17,858 residents
Essex	23% of 32,597 residents	39% of 30,940 residents	53% of 32,764 residents	45% of 73,164 residents	50% of 82,433 residents	58% of 81,171 residents	65% of 101,071 residents	74% of 51,842 residents	80% of 43,927 residents	81% of 35,420 residents	83% of 55,601 residents	60% of 624,842 residents
Franklin	26% of 2,199 residents	47% of 2,099 residents	51% of 2,439 residents	48% of 5,253 residents	55% of 6,623 residents	63% of 6,191 residents	68% of 8,208 residents	75% of 5,200 residents	81% of 5,378 residents	89% of 4,546 residents	85% of 5,444 residents	66% of 53,859 residents
Hampden	16% of 13,178 residents	30% of 14,680 residents	43% of 16,084 residents	38% of 38,268 residents	43% of 41,142 residents	51% of 40,214 residents	60% of 50,658 residents	70% of 27,457 residents	77% of 24,299 residents	80% of 19,884 residents	80% of 30,961 residents	55% of 317,511 residents
Hampshire	39% of 5,758 residents	58% of 4,845 residents	58% of 5,959 residents	53% of 15,487 residents	61% of 13,760 residents	69% of 13,507 residents	72% of 17,456 residents	78% of 10,144 residents	84% of 9,865 residents	88% of 8,564 residents	89% of 11,344 residents	69% of 117,579 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 14, 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	34% of 83,200 residents	52% of 66,475 residents	62% of 65,802 residents	53% of 188,320 residents	62% of 207,394 residents	69% of 182,531 residents	72% of 197,893 residents	78% of 95,091 residents	83% of 79,464 residents	85% of 65,174 residents	86% of 104,374 residents	66% of 1,352,487 residents
Nantucket	14% of 463 residents	33% of 488 residents	44% of 493 residents	27% of 1,646 residents	37% of 2,066 residents	52% of 2,007 residents	60% of 1,916 residents	72% of 828 residents	80% of 706 residents	83% of 544 residents	82% of 687 residents	51% of 11,862 residents
Norfolk	31% of 36,733 residents	50% of 30,135 residents	64% of 30,822 residents	55% of 71,669 residents	61% of 80,881 residents	68% of 77,322 residents	72% of 93,245 residents	78% of 45,314 residents	84% of 37,949 residents	85% of 30,621 residents	86% of 50,225 residents	66% of 591,718 residents
Plymouth	17% of 18,211 residents	34% of 18,852 residents	52% of 21,338 residents	46% of 42,792 residents	49% of 46,864 residents	57% of 50,298 residents	64% of 67,486 residents	73% of 34,434 residents	80% of 30,190 residents	82% of 25,694 residents	84% of 38,500 residents	60% of 396,607 residents
Suffolk	27% of 25,110 residents	38% of 22,603 residents	45% of 26,974 residents	46% of 138,351 residents	58% of 119,179 residents	61% of 77,283 residents	66% of 76,795 residents	74% of 35,357 residents	80% of 29,569 residents	82% of 23,333 residents	84% of 36,143 residents	58% of 615,293 residents
Worcester	21% of 30,472 residents	38% of 30,504 residents	53% of 33,278 residents	46% of 76,136 residents	49% of 83,219 residents	58% of 82,947 residents	65% of 102,559 residents	73% of 51,828 residents	81% of 42,870 residents	82% of 34,182 residents	84% of 51,425 residents	59% of 622,593 residents
Unknown/ Unspecified**	0% of 276,219 MA residents 5-11 Years	0% of 252,120 MA residents 12-15 Years	1% of 276,099 MA residents 16-19 Years	3% of 775,158 MA residents 20-29 Years	2% of 797,604 MA residents 30-39 Years	1% of 716,613 MA residents 40-49 Years	1% of 852,645 MA residents 50-59 Years	1% of 432,441 MA residents 60-64 Years	1% of 371,259 MA residents 65-69 Years	1% of 305,804 MA residents 70-74 Years	1% of 477,548 MA residents 75+ Years	1% of 5,575,510 residents
Massachusetts	27% of 276,219 residents	42% of 252,120 residents	53% of 276,099 residents	47% of 775,158 residents	54% of 797,604 residents	61% of 716,613 residents	66% of 852,645 residents	74% of 432,441 residents	80% of 371,259 residents	82% of 305,804 residents	83% of 477,548 residents	61% of 5,575,510 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.