



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 2, 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 07, 2022

Administered (MIIS)* through Monday, November 7, 2022 (Running totals by day)

	November 1, 2022	November 2, 2022	November 3, 2022	November 4, 2022	November 5, 2022	November 6, 2022	November 7, 2022
At least one dose -- number of people who received at least one dose of Moderna, Pfizer, or Johnson & Johnson vaccine	6,455,824	6,458,997	6,461,677	6,465,175	6,467,024	6,468,137	6,469,688
Fully vaccinated -- number of people who received a primary series of Moderna, Pfizer, or Johnson & Johnson vaccine**	5,558,043	5,559,610	5,561,033	5,562,760	5,563,485	5,563,896	5,564,679
First booster doses -- number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,349,601	3,352,393	3,354,677	3,357,463	3,358,762	3,359,589	3,361,017
Second booster doses -- number of people who have received at least 2 booster doses****	1,185,374	1,195,323	1,203,486	1,214,490	1,219,510	1,222,577	1,226,605
Total Doses Administered (MIIS)	16,589,046	16,612,408	16,631,765	16,656,363	16,667,513	16,674,358	16,684,554

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

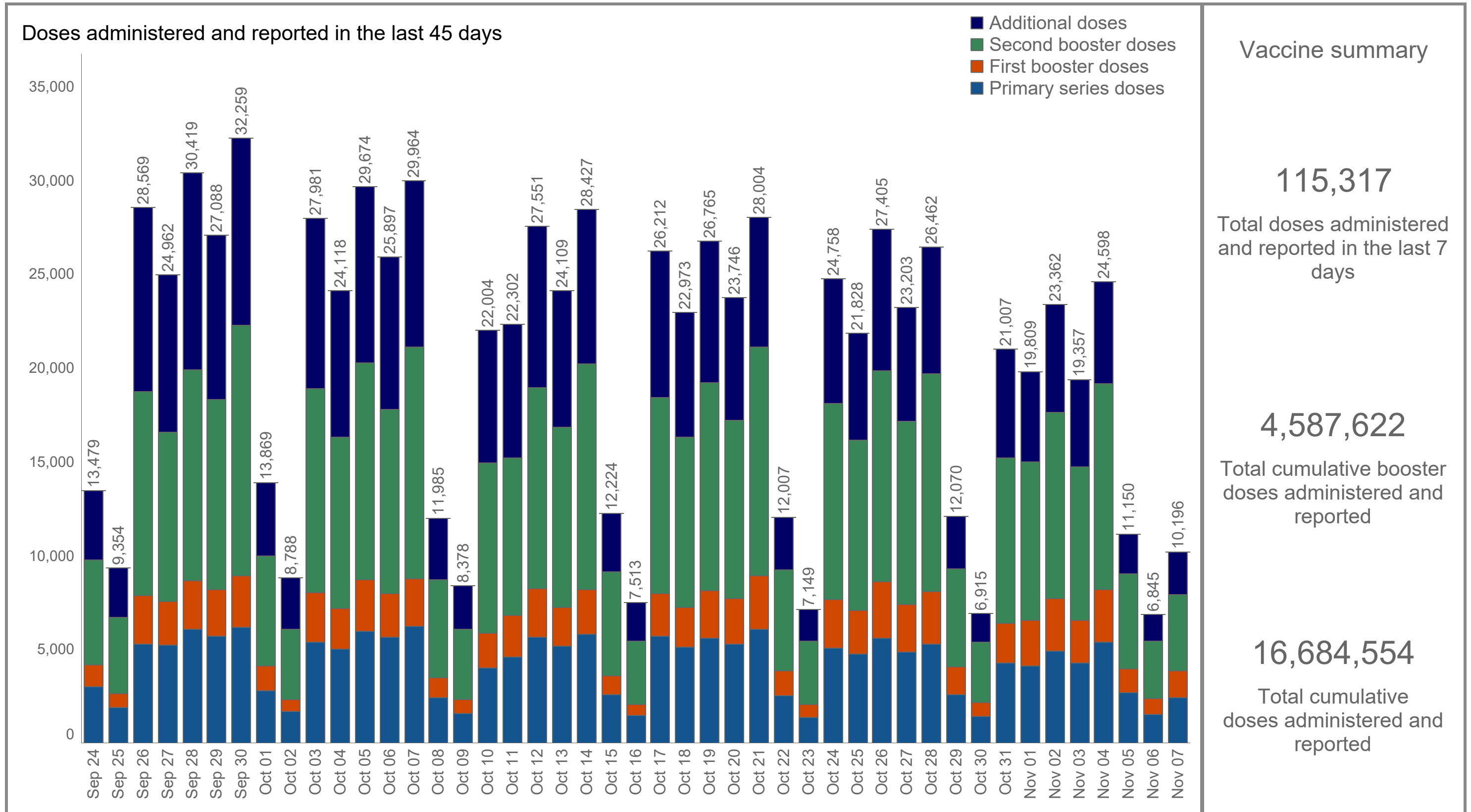
**An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require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

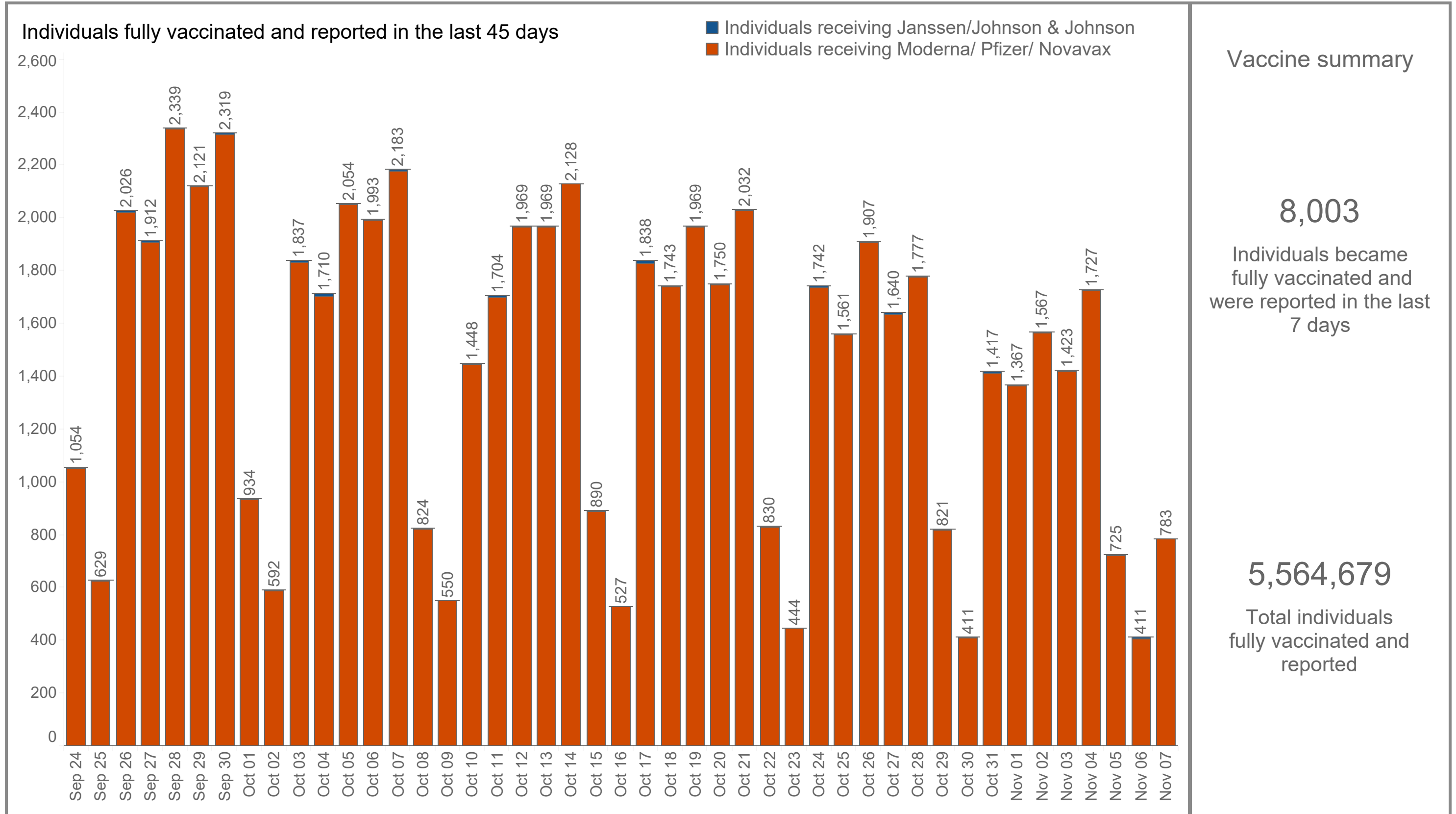
Data as of November 07, 2022



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 07, 2022



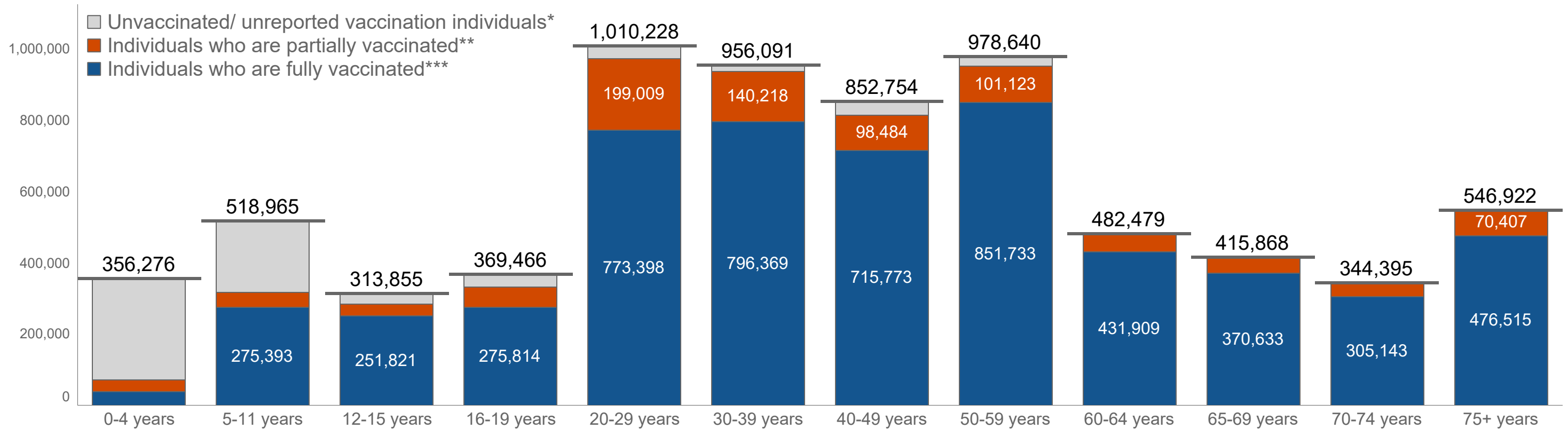
NOTE: Data from MIIS (see "definitions"). Dates reflect the date doses were administered. Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported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

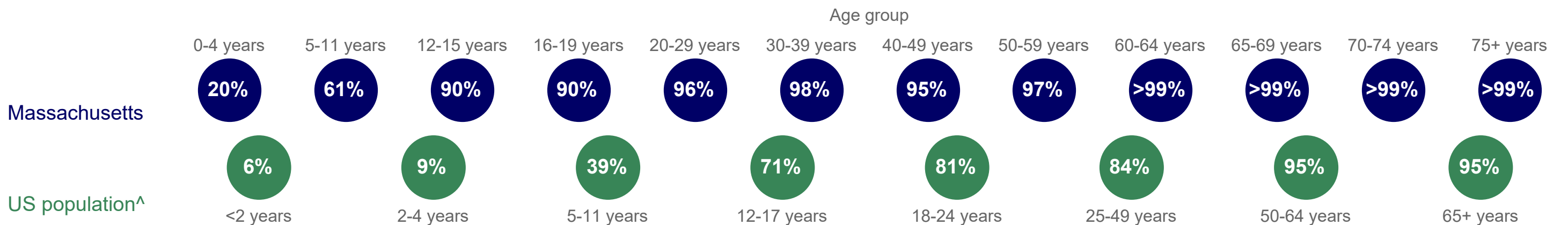
Data as of November 07, 2022

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



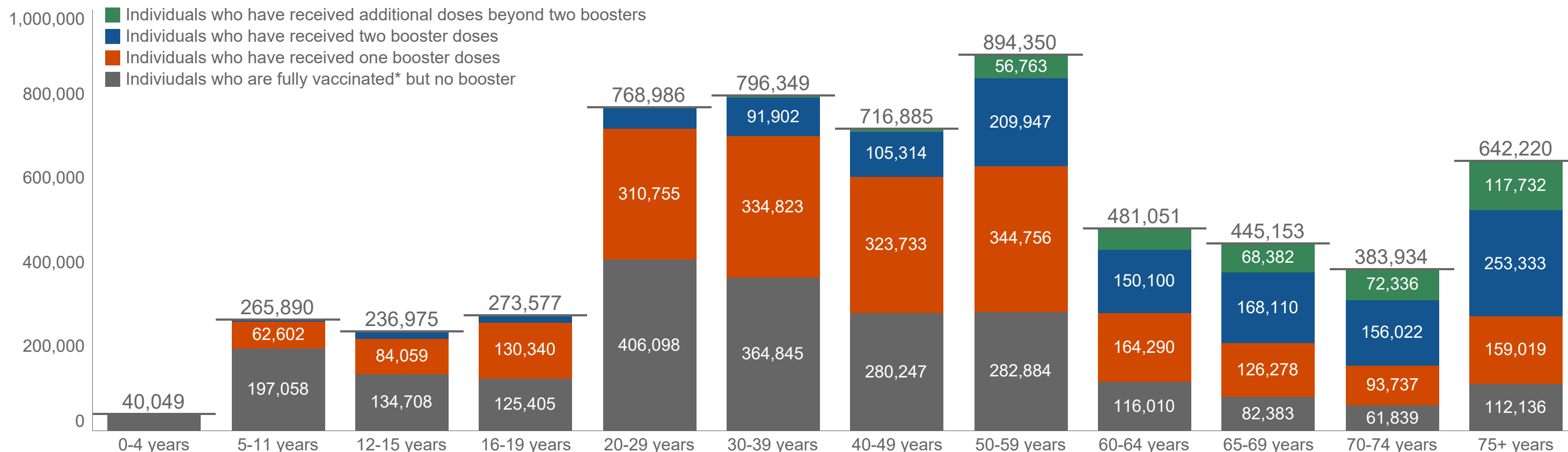
Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *Unvaccinated/unreported vaccination individuals: This is the population estimate for the 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;2022-11-02://covid.cdc.gov/covid-data-tracker (3) MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Individuals who have Received Booster Doses

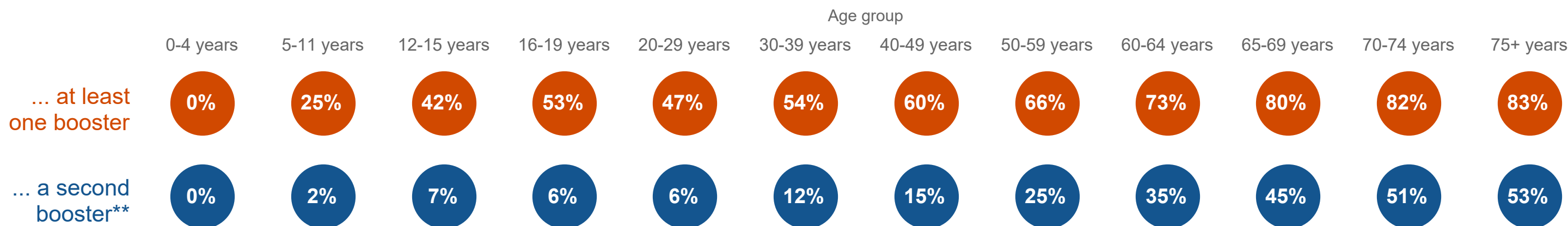
Data as of November 07, 2022

In Massachusetts, 60% 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.
 *Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. This includes some individuals who may not be eligible for a booster (i.e. less than 2 months after primary series). **Not mutually exclusive. The 'second booster' row includes all those counted in the first row, with at least one booster, plus those individuals who have received an additional dose. Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2022-11-02. <https://covid.cdc.gov/covid-data-tracker> (3) MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Individuals Fully Vaccinated

Data as of November 07, 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	54% 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	35% 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	53% of 122 residents	82% of 1,215 residents	66% of 985 residents	55% 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	59% 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	52% of 199 residents	50% of 10,709 residents	52% of 4,398 residents	49% of 11,248 residents	41% 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.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.) Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals Fully Vaccinated

Data as of November 07, 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	81% of 725,981 residents
Plymouth	34% of 893 residents	67% of 7,962 residents	80% of 48,249 residents	67% of 23,417 residents	44% of 35,840 residents	59% 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	74% 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	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	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 07, 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	5% of 8,117 residents	43% of 12,225 residents	73% 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	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	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	66% 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	84% 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	8% 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	92% of 60,087 residents	77% of 809,829 residents
Franklin	9% of 3,011 residents	46% of 4,819 residents	71% 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	91% 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	16% 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).

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 07, 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	19% of 83,667 residents	68% of 121,734 residents	91% of 73,083 residents	79% of 82,715 residents	77% 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	94% 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	17% 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	93% of 48,444 residents	>95% of 39,164 residents	>95% of 31,323 residents	90% of 55,829 residents	81% of 725,981 residents
Plymouth	7% of 27,514 residents	43% of 42,518 residents	71% of 26,597 residents	78% of 27,177 residents	69% 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	94% 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	66% of 114,476 residents	74% of 111,763 residents	76% 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	11% 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 07, 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	55% of 523 residents	59% of 2,265 residents	38% of 5,295 residents	48% of 8,078 residents	70% of 4,366 residents	39% of 98 residents	68% of 155,577 residents	1% of 183,436 Barnstable county residents	64% of 183,436 residents
Berkshire	39% of 83 residents	54% of 1,420 residents	46% of 2,615 residents	46% of 4,139 residents	64% of 2,194 residents	*	65% of 83,841 residents	1% of 97,740 Berkshire county residents	62% of 97,740 residents
Bristol	31% of 482 residents	53% of 8,841 residents	43% of 18,614 residents	41% of 33,300 residents	63% of 11,330 residents	37% of 178 residents	58% of 297,601 residents	1% of 385,822 Bristol county residents	54% of 385,822 residents
Dukes	55% of 112 residents	66% of 172 residents	44% of 865 residents	43% of 943 residents	67% of 411 residents	*	68% of 13,626 residents	2% of 17,840 Dukes county residents	61% of 17,840 residents
Essex	35% of 380 residents	61% of 22,186 residents	47% of 21,773 residents	43% of 105,710 residents	69% of 17,231 residents	47% of 210 residents	65% of 431,307 residents	1% of 623,941 Essex county residents	59% of 623,941 residents
Franklin	*	57% of 992 residents	49% of 647 residents	51% of 1,847 residents	73% of 1,087 residents	*	68% of 47,145 residents	1% of 53,766 Franklin county residents	65% of 53,766 residents
Hampden	36% of 377 residents	54% of 8,595 residents	49% of 21,669 residents	42% of 60,877 residents	64% of 7,970 residents	42% of 193 residents	62% of 198,128 residents	2% of 317,030 Hampden county residents	55% of 317,030 residents
Hampshire	58% of 103 residents	60% of 5,388 residents	56% of 2,298 residents	55% of 5,468 residents	76% of 2,871 residents	*	72% of 96,220 residents	1% of 117,354 Hampshire county residents	69% of 117,354 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 07, 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 997 residents	65% of 161,449 residents	53% of 61,149 residents	47% of 105,997 residents	74% of 66,693 residents	49% of 498 residents	70% of 893,776 residents	1% of 1,349,666 Middlesex county residents	65% of 1,349,666 residents
Nantucket	*	59% of 211 residents	36% of 985 residents	28% of 1,928 residents	65% of 165 residents	*	62% of 7,599 residents	1% of 11,840 Nantucket county residents	51% of 11,840 residents
Norfolk	39% of 378 residents	67% of 67,038 residents	54% of 38,045 residents	53% of 26,416 residents	74% of 31,021 residents	50% of 230 residents	69% of 408,822 residents	1% of 590,565 Norfolk county residents	66% of 590,565 residents
Plymouth	36% of 307 residents	62% of 5,348 residents	44% of 38,801 residents	46% of 15,721 residents	65% of 15,921 residents	43% of 130 residents	63% of 306,628 residents	1% of 396,046 Plymouth county residents	60% of 396,046 residents
Suffolk	42% of 628 residents	62% of 65,021 residents	54% of 108,939 residents	48% of 132,579 residents	72% of 23,147 residents	49% of 608 residents	66% of 251,422 residents	1% of 614,118 Suffolk county residents	58% of 614,118 residents
Worcester	34% of 548 residents	61% of 33,281 residents	47% of 27,337 residents	43% of 74,405 residents	69% of 20,132 residents	47% of 220 residents	63% of 444,182 residents	1% of 621,721 Worcester county residents	59% of 621,721 residents
Unknown/ Unspecified**	1% of 5,263 AI/AN residents	2% of 395,715 Asian residents	1% of 356,258 Black residents	1% of 589,125 Hispanic residents	1% of 208,080 Multi-race residents	1% of 2,593 NH/PI residents	1% of 3,760,779 White residents	0% of 5,564,679 MA residents	1% of 5,564,679 residents
Massachusetts	40% of 5,263 residents	63% of 395,715 residents	50% of 356,258 residents	45% of 589,125 residents	71% of 208,080 residents	46% of 2,593 residents	65% of 3,760,779 residents	1% of 5,564,679 MA residents	60% of 5,564,679 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 07, 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	19% of 5,199 residents	34% of 5,875 residents	50% of 6,861 residents	43% of 16,056 residents	45% of 17,053 residents	54% of 17,206 residents	62% of 27,988 residents	73% of 18,975 residents	80% of 19,451 residents	83% of 18,219 residents	85% of 30,123 residents	64% of 183,436 residents
Berkshire	20% of 4,493 residents	40% of 3,954 residents	53% of 4,420 residents	44% of 9,968 residents	50% of 10,904 residents	59% of 10,747 residents	65% of 15,365 residents	74% of 9,262 residents	81% of 8,544 residents	81% of 7,664 residents	84% of 12,057 residents	62% of 97,740 residents
Bristol	17% of 13,655 residents	29% of 16,886 residents	45% of 19,246 residents	40% of 44,533 residents	42% of 49,149 residents	49% of 51,272 residents	58% of 65,869 residents	68% of 33,728 residents	74% of 29,048 residents	77% of 23,979 residents	78% of 37,189 residents	54% of 385,822 residents
Dukes	17% of 734 residents	44% of 766 residents	55% of 712 residents	35% of 1,965 residents	44% of 2,649 residents	56% of 2,282 residents	67% of 2,657 residents	78% of 1,430 residents	81% of 1,454 residents	85% of 1,383 residents	93% of 1,743 residents	61% of 17,840 residents
Essex	21% of 32,515 residents	39% of 30,921 residents	53% of 32,737 residents	45% of 73,081 residents	50% of 82,361 residents	58% of 81,102 residents	65% of 100,993 residents	73% of 51,785 residents	79% of 43,866 residents	81% of 35,345 residents	82% of 55,512 residents	59% of 623,941 residents
Franklin	25% of 2,195 residents	46% of 2,080 residents	51% of 2,433 residents	47% of 5,250 residents	55% of 6,616 residents	63% of 6,189 residents	68% of 8,197 residents	75% of 5,193 residents	81% of 5,371 residents	88% of 4,542 residents	85% of 5,437 residents	65% of 53,766 residents
Hampden	15% of 13,130 residents	29% of 14,662 residents	43% of 16,070 residents	38% of 38,228 residents	42% of 41,098 residents	51% of 40,153 residents	60% of 50,595 residents	69% of 27,412 residents	77% of 24,255 residents	79% of 19,852 residents	80% of 30,913 residents	55% of 317,030 residents
Hampshire	37% of 5,734 residents	57% of 4,843 residents	57% of 5,953 residents	53% of 15,456 residents	61% of 13,744 residents	68% of 13,489 residents	72% of 17,431 residents	78% of 10,123 residents	84% of 9,849 residents	88% of 8,548 residents	88% of 11,329 residents	69% of 117,354 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 07, 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	33% of 82,993 residents	52% of 66,385 residents	62% of 65,754 residents	53% of 187,826 residents	61% of 207,031 residents	68% of 182,298 residents	72% of 197,686 residents	78% of 94,991 residents	83% of 79,349 residents	85% of 65,054 residents	85% of 104,144 residents	65% of 1,349,666 residents
Nantucket	13% of 463 residents	33% of 488 residents	44% of 492 residents	27% of 1,644 residents	37% of 2,066 residents	51% of 2,006 residents	60% of 1,913 residents	71% of 827 residents	80% of 703 residents	83% of 539 residents	82% of 682 residents	51% of 11,840 residents
Norfolk	30% of 36,620 residents	49% of 30,090 residents	63% of 30,788 residents	54% of 71,556 residents	61% of 80,774 residents	68% of 77,211 residents	72% of 93,174 residents	78% of 45,277 residents	84% of 37,907 residents	85% of 30,560 residents	86% of 50,107 residents	66% of 590,565 residents
Plymouth	16% of 18,147 residents	33% of 18,826 residents	52% of 21,320 residents	46% of 42,737 residents	48% of 46,820 residents	56% of 50,268 residents	63% of 67,437 residents	72% of 34,389 residents	80% of 30,157 residents	82% of 25,656 residents	83% of 38,432 residents	60% of 396,046 residents
Suffolk	25% of 25,015 residents	37% of 22,588 residents	45% of 26,945 residents	46% of 138,004 residents	58% of 119,006 residents	61% of 77,227 residents	66% of 76,723 residents	74% of 35,323 residents	79% of 29,536 residents	81% of 23,307 residents	84% of 36,099 residents	58% of 614,118 residents
Worcester	19% of 30,385 residents	38% of 30,470 residents	53% of 33,265 residents	45% of 76,036 residents	49% of 83,110 residents	57% of 82,872 residents	64% of 102,478 residents	73% of 51,784 residents	80% of 42,815 residents	82% of 34,119 residents	84% of 51,345 residents	59% of 621,721 residents
Unknown/ Unspecified**	0% of 275,393 MA residents 5-11 Years	0% of 251,821 MA residents 12-15 Years	1% of 275,814 MA residents 16-19 Years	3% of 773,398 MA residents 20-29 Years	2% of 796,369 MA residents 30-39 Years	1% of 715,773 MA residents 40-49 Years	1% of 851,733 MA residents 50-59 Years	1% of 431,909 MA residents 60-64 Years	1% of 370,633 MA residents 65-69 Years	1% of 305,143 MA residents 70-74 Years	1% of 476,515 MA residents 75+ Years	1% of 5,564,679 residents
Massachusetts	25% of 275,393 residents	42% of 251,821 residents	53% of 275,814 residents	47% of 773,398 residents	54% of 796,369 residents	60% of 715,773 residents	66% of 851,733 residents	73% of 431,909 residents	80% of 370,633 residents	82% of 305,143 residents	83% of 476,515 residents	60% of 5,564,679 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.