



Weekly COVID-19 Vaccination Report

The Weekly COVID-19 Vaccination Report includes the most currently available information on vaccines administered, as well as more granular information by geography, demographic factors, and more.

This report will be posted each Wednesday.

An important note regarding vaccination progress

Source: Centers for Disease Control and Prevention. COVID Data Tracker.

Atlanta, GA: US Department of Health and Human Services, CDC; October 12, 2022.

<https://covid.cdc.gov/covid-data-tracker>

Massachusetts currently ranks tied for first among US states for the rate of persons with one or more doses administered per capita.

Massachusetts currently ranks first for the rate of persons with one or more doses per capita among states with populations of five million people or more.



Please note: This report reflects data available in the Massachusetts Immunization Information System (MIIS) as of Monday at 11:59PM and is pulled every Tuesday. Due to provider reporting of administration data and data processing, data may be available in MIIS 24-48 hours or more after administration. Due to time needed for inputting shipment data, shipment data may be available in MIIS 24-48 hours or more after shipment. MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and may be subject to change in future publications as additional data are reported. All data are from MIIS unless otherwise noted.

COVID-19 Vaccines Administered

Data as of October 17, 2022

Administered (MIIS)* through Monday, October 17, 2022 (Running totals by day)

	October 11, 2022	October 12, 2022	October 13, 2022	October 14, 2022	October 15, 2022	October 16, 2022	October 17, 2022
At least one dose -- number of people who received at least one dose of Moderna, Pfizer, or Johnson & Johnson vaccine	6,404,761	6,408,158	6,411,174	6,414,741	6,416,041	6,416,262	6,418,065
Fully vaccinated -- number of people who received a primary series of Moderna, Pfizer, or Johnson & Johnson vaccine**	5,525,128	5,527,013	5,528,928	5,530,943	5,531,701	5,531,842	5,532,574
First booster doses -- number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,298,108	3,300,498	3,302,481	3,304,656	3,305,428	3,305,564	3,306,489
Second booster doses -- number of people who have received at least 2 booster doses****	984,895	994,980	1,004,175	1,015,436	1,019,873	1,020,457	1,023,603
Total Doses Administered (MIIS)	16,119,772	16,145,633	16,168,877	16,195,744	16,205,593	16,207,103	16,215,809

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

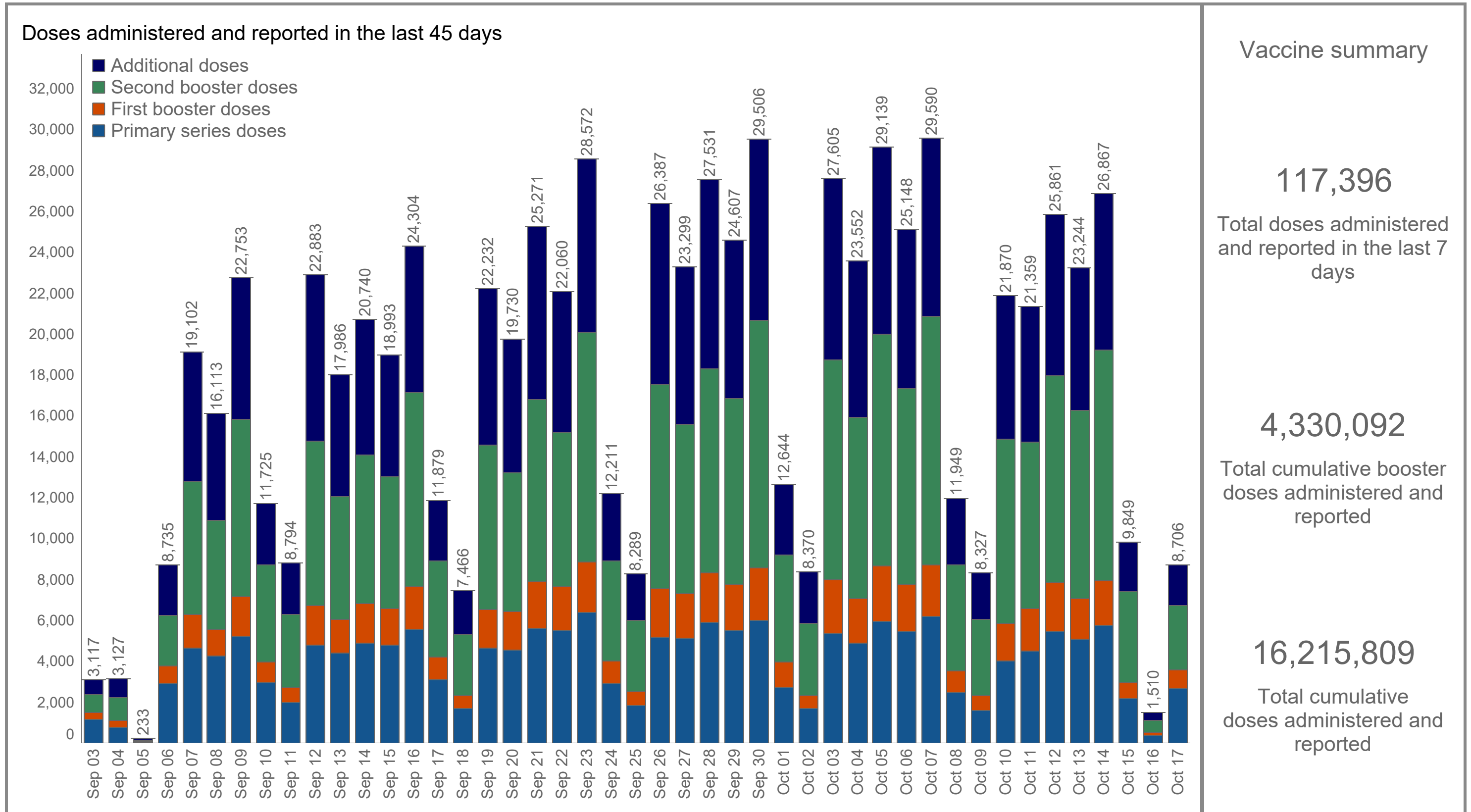
**An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require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

***See the definitions page at the end of this document for the full definition. Booster doses are currently recommended for everyone aged 5 years and older. See <https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions> for details on which formulation of vaccine is recommended at which intervals.

****Second booster doses: Number of individuals who have received an additional dose after their first booster dose.

COVID-19 Vaccine Doses Administered

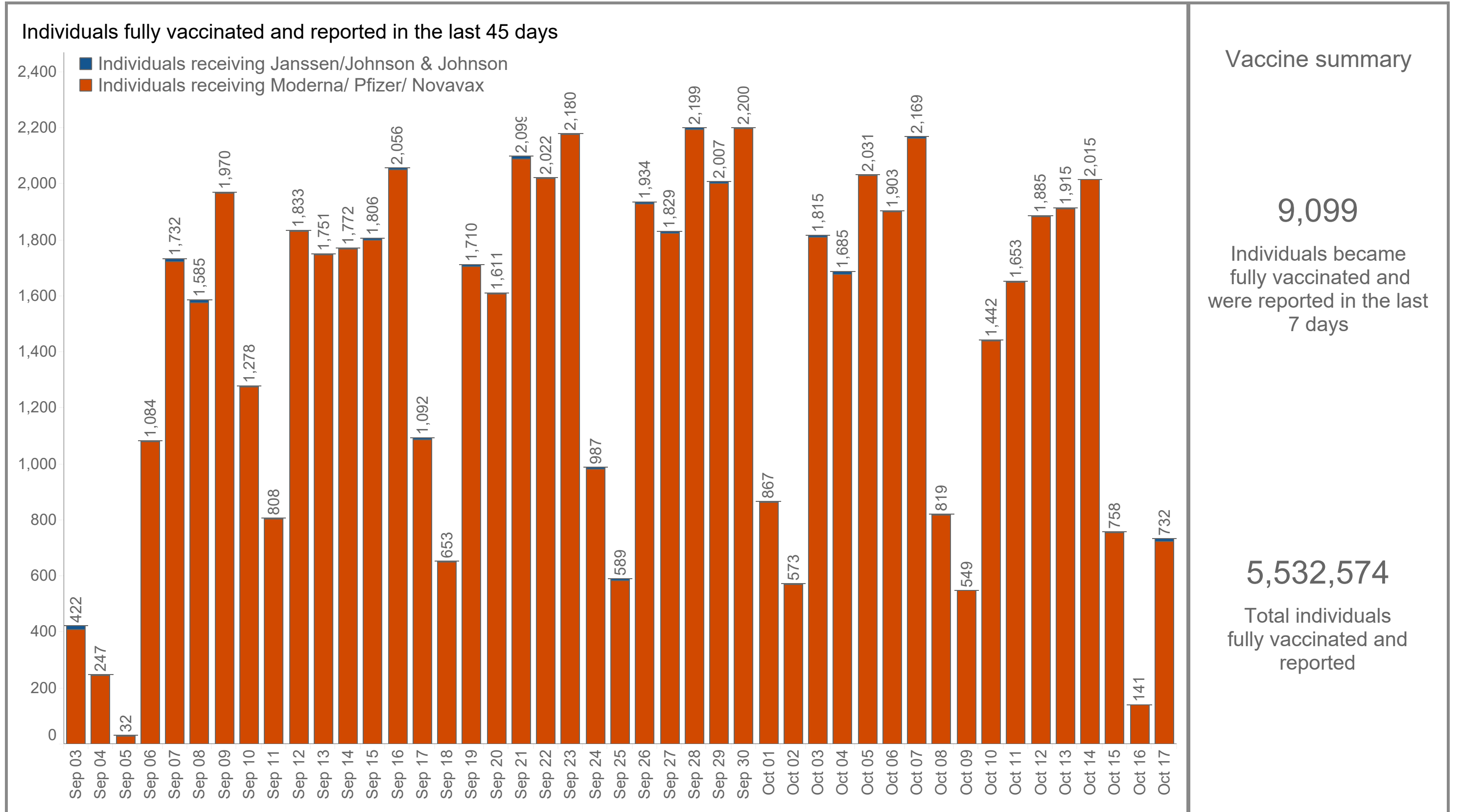
Data as of October 17, 2022



Note: Data from MIIS (see "definitions"). Data reflect doses administered (see "definitions"). Dates reflect the date doses were administered. Doses administered: All valid doses of Janssen/Johnson & Johnson, Moderna, Novavax, and Pfizer COVID-19 vaccine that have been given to people by providers and reported to MIIS are included in this measurement. Primary series doses: the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. See the definitions page at the end of this document.

Individuals Fully Vaccinated

Data as of October 17, 2022



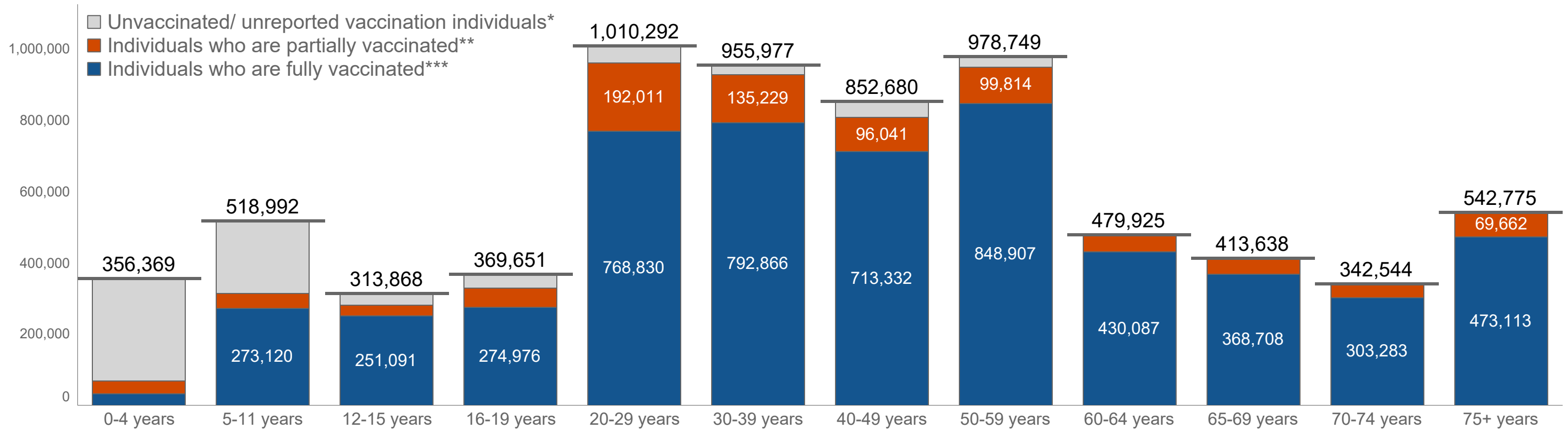
NOTE: Data from MIIS (see "definitions"). Dates reflect the date doses were administered. Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

Individuals with at Least One Dose

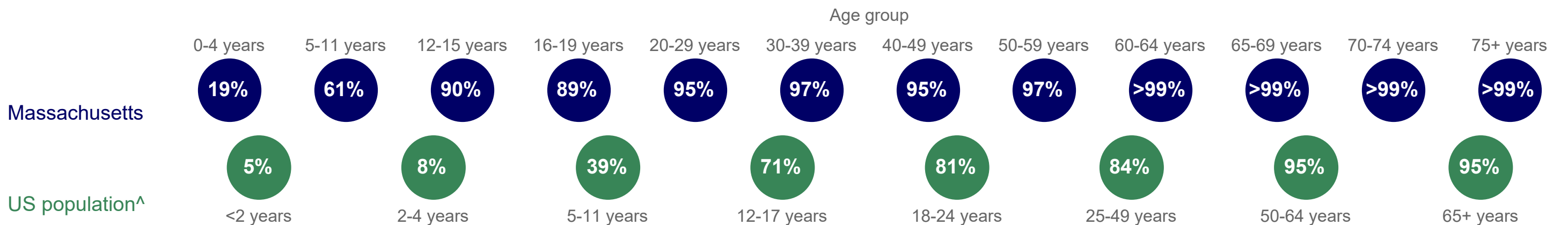
Data as of October 17, 2022

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

Vaccination status of individuals by age group (cumulative)



Percent of population with at least one dose



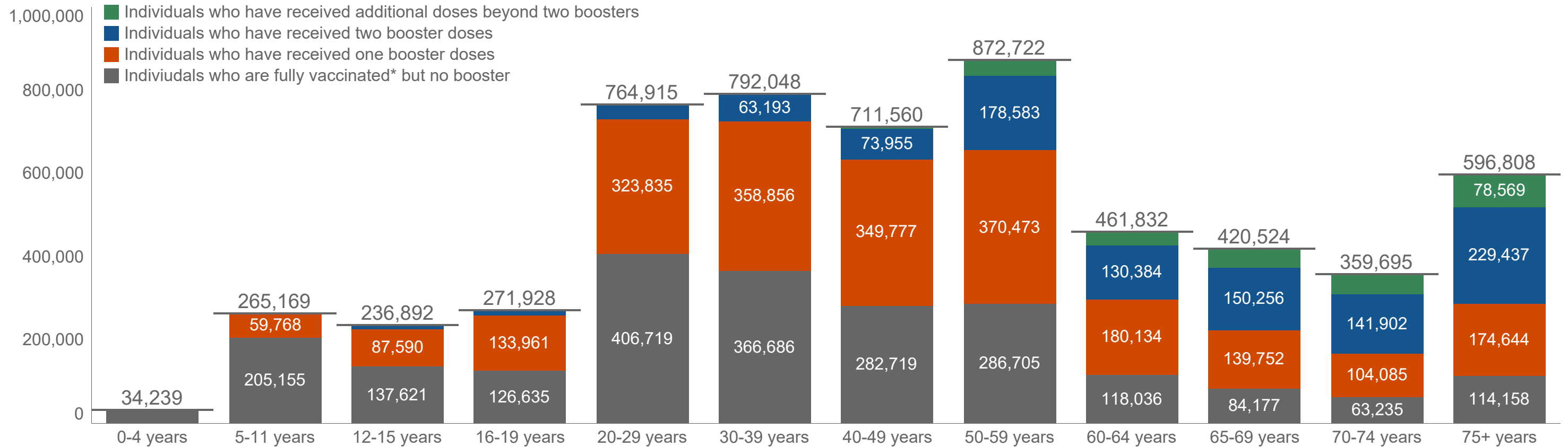
Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *Unvaccinated/unreported vaccination individuals: This is the population estimate for the subpopulation minus the number of people who received at least one dose of vaccine. It is important to recall that not being represented in MIIS does not necessarily mean someone has not received vaccine. **Individuals who are partially vaccinated are those who have received at least one dose, but have not completed a primary series. ***Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. ^CDC percent of population coverage metrics are capped at 95%. For more information: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/reporting-vaccinations.html> Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2022-10-12://[covid.cdc.gov/covid-data-tracker](https://www.cdc.gov/covid-data-tracker) (3) MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Individuals who have Received Booster Doses

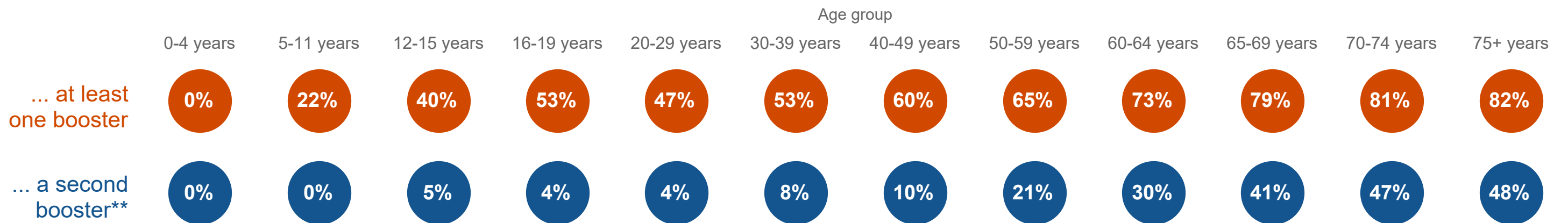
Data as of October 17, 2022

In Massachusetts, 60% of those fully vaccinated have received a booster dose, compared with 49% of the national population that is fully vaccinated.

Booster status of fully vaccinated individuals by age group



Percent of the Massachusetts fully vaccinated* population with...



Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *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;2022-10-12. <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 October 17, 2022

Individuals fully vaccinated by county, race, and Hispanic ethnicity (1 of 2)

Number of people in the county and race/ethnicity group who are fully vaccinated divided by the estimated population in the county and race/ethnicity group

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Barnstable	45% of 1,171 residents	70% of 3,230 residents	79% of 6,644 residents	>95% of 7,637 residents	35% of 12,144 residents	>95% of 53 residents	78% of 198,117 residents	3% of 228,996 Barnstable county residents	80% of 228,996 residents
Berkshire	55% of 153 residents	71% of 1,978 residents	63% of 4,132 residents	62% of 6,619 residents	38% of 5,666 residents	*	75% of 110,470 residents	3% of 129,026 Berkshire county residents	75% of 129,026 residents
Bristol	46% of 1,045 residents	64% of 13,752 residents	76% of 24,506 residents	61% of 53,995 residents	34% of 32,048 residents	>95% of 148 residents	65% of 453,707 residents	3% of 579,200 Bristol county residents	66% of 579,200 residents
Dukes	50% of 219 residents	95% of 181 residents	>95% of 809 residents	>95% of 452 residents	21% of 1,899 residents	*	80% of 17,031 residents	8% of 20,600 Dukes county residents	86% of 20,600 residents
Essex	47% of 808 residents	75% of 29,651 residents	79% of 27,604 residents	58% of 181,759 residents	64% 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	55% of 122 residents	81% of 1,215 residents	66% of 985 residents	55% of 3,329 residents	33% of 3,207 residents	*	75% of 62,163 residents	3% of 71,029 Franklin county residents	75% of 71,029 residents
Hampden	59% of 646 residents	70% of 12,176 residents	59% of 36,442 residents	50% of 120,694 residents	51% of 15,087 residents	>95% of 165 residents	70% of 280,615 residents	4% of 465,825 Hampden county residents	68% of 465,825 residents
Hampshire	52% of 199 residents	50% of 10,709 residents	52% of 4,398 residents	48% of 11,248 residents	40% of 6,930 residents	>95% of 43 residents	74% of 128,781 residents	3% of 162,308 Hampshire county residents	72% of 162,308 residents

* Vaccination figures with fewer than 30 people are suppressed for privacy.

** "Unknown/other race" is shown as a % of the row population (county or state). "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the COVID-19 vaccine series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

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Individuals Fully Vaccinated

Data as of October 17, 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	72% of 84,324 residents	75% of 141,738 residents	80% of 81,692 residents	>95% of 380 residents	80% of 1,110,235 residents	4% of 1,632,002 Middlesex county residents	82% of 1,632,002 residents
Nantucket	*	77% of 274 residents	>95% of 1,025 residents	89% of 2,175 residents	26% of 615 residents	*	74% of 10,149 residents	7% of 14,255 Nantucket county residents	83% of 14,255 residents
Norfolk	51% of 736 residents	75% of 88,772 residents	75% of 50,563 residents	70% of 37,460 residents	>95% of 29,540 residents	>95% of 151 residents	78% of 518,759 residents	3% of 725,981 Norfolk county residents	81% of 725,981 residents
Plymouth	35% of 893 residents	67% of 7,962 residents	80% of 48,249 residents	67% of 23,417 residents	44% of 35,840 residents	60% of 220 residents	74% of 414,238 residents	2% of 530,819 Plymouth county residents	74% of 530,819 residents
Suffolk	51% of 1,235 residents	79% of 81,295 residents	76% of 142,086 residents	74% of 177,973 residents	60% of 37,543 residents	>95% of 357 residents	70% of 357,446 residents	4% of 797,936 Suffolk county residents	77% of 797,936 residents
Worcester	46% of 1,183 residents	71% of 46,778 residents	60% of 45,164 residents	67% of 110,448 residents	52% of 37,582 residents	>95% of 145 residents	71% of 620,810 residents	3% of 862,111 Worcester county residents	72% of 862,111 residents
Unknown/ Unspecified**	3% of 9,939 AI/AN residents	3% of 510,096 Asian residents	1% of 476,930 Black residents	1% of 878,944 Hispanic residents	1% of 326,050 Multi-race residents	7% of 1,841 NH/PI residents	3% of 4,826,116 White residents	0% of 7,029,917 MA residents	3% of 7,029,917 residents
Massachusetts	53% of 9,939 residents	77% of 510,096 residents	74% of 476,930 residents	67% of 878,944 residents	62% of 326,050 residents	>95% of 1,841 residents	77% of 4,826,116 residents	4% of 7,029,917 MA residents	79% of 7,029,917 residents

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Individuals Fully Vaccinated

Data as of October 17, 2022

Individuals fully vaccinated by county and age group (1 of 2)

Number of people in the county and age group who are fully vaccinated divided by the estimated population in the county and age group

	0-4 years	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
Barnstable	4% of 8,117 residents	42% of 12,225 residents	73% of 7,999 residents	81% of 8,444 residents	72% of 22,109 residents	84% of 20,313 residents	80% of 21,363 residents	82% of 34,083 residents	88% of 21,351 residents	88% of 21,806 residents	91% of 19,831 residents	>95% of 31,352 residents	80% of 228,996 residents
Berkshire	5% of 5,429 residents	54% of 8,296 residents	73% of 5,380 residents	68% of 6,484 residents	65% of 15,369 residents	79% of 13,757 residents	78% of 13,736 residents	80% of 19,125 residents	87% of 10,525 residents	89% of 9,518 residents	95% of 8,017 residents	89% of 13,390 residents	75% of 129,026 residents
Bristol	4% of 30,091 residents	30% of 45,540 residents	61% of 27,527 residents	66% of 29,121 residents	59% of 74,766 residents	66% of 73,958 residents	70% of 73,224 residents	77% of 85,414 residents	86% of 39,125 residents	91% of 31,728 residents	93% of 25,741 residents	86% of 42,964 residents	66% of 579,200 residents
Dukes	7% of 882 residents	57% of 1,267 residents	>95% of 785 residents	>95% of 653 residents	95% of 2,070 residents	>95% of 2,359 residents	94% of 2,432 residents	84% of 3,147 residents	84% of 1,702 residents	80% of 1,801 residents	87% of 1,574 residents	90% of 1,929 residents	86% of 20,600 residents
Essex	7% of 44,345 residents	50% of 64,079 residents	79% of 38,871 residents	78% of 41,764 residents	71% of 102,396 residents	81% of 101,407 residents	81% of 99,259 residents	85% of 118,474 residents	92% of 56,226 residents	95% of 46,143 residents	>95% of 36,776 residents	92% of 60,087 residents	77% of 809,829 residents
Franklin	7% of 3,011 residents	45% 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	75% of 71,029 residents
Hampden	2% of 24,918 residents	34% of 38,042 residents	63% of 23,128 residents	62% of 26,022 residents	58% of 65,472 residents	69% of 59,405 residents	75% of 53,671 residents	80% of 62,992 residents	87% of 31,187 residents	93% of 25,936 residents	>95% of 20,519 residents	89% of 34,534 residents	68% of 465,825 residents
Hampshire	14% of 5,278 residents	64% of 8,930 residents	81% of 5,934 residents	37% of 16,019 residents	46% of 33,434 residents	82% of 16,604 residents	84% of 16,047 residents	86% of 20,206 residents	94% of 10,664 residents	>95% of 9,895 residents	>95% of 7,914 residents	>95% of 11,383 residents	72% of 162,308 residents

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** "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

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Individuals Fully Vaccinated

Data as of October 17, 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	17% of 83,667 residents	68% of 121,734 residents	91% of 73,083 residents	79% of 82,715 residents	77% of 242,436 residents	85% 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	82% 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	87% of 945 residents	91% of 764 residents	>95% of 562 residents	79% of 847 residents	83% of 14,255 residents
Norfolk	15% of 37,515 residents	64% of 56,630 residents	85% of 35,180 residents	84% of 36,428 residents	78% of 90,767 residents	84% of 95,497 residents	82% of 93,243 residents	88% of 105,961 residents	93% of 48,444 residents	>95% of 39,164 residents	>95% of 31,323 residents	89% of 55,829 residents	81% of 725,981 residents
Plymouth	6% of 27,514 residents	42% 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	89% of 38,334 residents	94% of 31,886 residents	>95% of 26,374 residents	94% of 40,701 residents	74% of 530,819 residents
Suffolk	9% of 40,171 residents	52% of 47,420 residents	86% of 26,325 residents	58% of 46,527 residents	78% of 176,345 residents	81% of 145,860 residents	87% of 88,768 residents	87% of 87,549 residents	88% of 40,123 residents	91% of 32,272 residents	94% of 24,580 residents	86% of 41,995 residents	77% of 797,936 residents
Worcester	6% of 45,082 residents	44% of 68,600 residents	72% of 42,016 residents	71% of 46,659 residents	66% of 114,476 residents	74% of 111,763 residents	76% of 108,360 residents	81% of 126,900 residents	88% of 58,820 residents	93% of 46,033 residents	>95% of 35,450 residents	88% of 57,952 residents	72% of 862,111 residents
Unknown/ Unspecified**	0% of 356,875 MA residents 0-4 Years	1% of 521,112 MA residents 5-11 Years	1% of 316,296 MA residents 12-15 Years	2% of 371,285 MA residents 16-19 Years	5% of 1,010,451 MA residents 20-29 Years	4% of 955,267 MA residents 30-39 Years	2% 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	10% of 356,875 residents	52% of 521,112 residents	79% of 316,296 residents	74% of 371,285 residents	76% of 1,010,451 residents	83% of 955,267 residents	84% of 852,990 residents	87% of 980,162 residents	93% of 464,409 residents	>95% of 383,903 residents	>95% of 307,883 residents	93% of 509,277 residents	79% of 7,029,917 residents

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Individuals who have Received Booster Doses

Data as of October 17, 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	54% of 526 residents	58% of 2,261 residents	37% of 5,268 residents	47% of 8,005 residents	70% of 4,249 residents	39% of 99 residents	67% of 154,518 residents	1% of 182,248 Barnstable county residents	64% of 182,248 residents
Berkshire	36% of 84 residents	53% of 1,403 residents	45% of 2,599 residents	45% of 4,120 residents	63% of 2,134 residents	*	64% of 83,344 residents	1% of 97,169 Berkshire county residents	61% of 97,169 residents
Bristol	31% of 484 residents	53% of 8,818 residents	43% of 18,555 residents	40% of 33,179 residents	62% of 10,961 residents	35% of 175 residents	57% of 296,340 residents	1% of 384,177 Bristol county residents	54% of 384,177 residents
Dukes	56% of 110 residents	65% of 171 residents	44% of 864 residents	41% of 928 residents	65% of 397 residents	*	67% of 13,543 residents	2% of 17,746 Dukes county residents	60% of 17,746 residents
Essex	36% of 376 residents	61% of 22,141 residents	46% of 21,696 residents	42% of 105,194 residents	67% of 16,784 residents	46% of 205 residents	65% of 429,350 residents	1% of 621,149 Essex county residents	58% of 621,149 residents
Franklin	*	57% of 980 residents	48% of 645 residents	50% of 1,836 residents	72% of 1,048 residents	*	67% of 46,874 residents	1% of 53,480 Franklin county residents	65% of 53,480 residents
Hampden	36% of 380 residents	54% of 8,583 residents	48% of 21,605 residents	41% of 60,677 residents	62% of 7,708 residents	41% of 191 residents	61% of 197,037 residents	2% of 315,599 Hampden county residents	54% of 315,599 residents
Hampshire	56% of 103 residents	60% of 5,338 residents	55% of 2,283 residents	55% of 5,441 residents	75% of 2,758 residents	*	71% of 95,639 residents	1% of 116,598 Hampshire county residents	68% of 116,598 residents

* Vaccination figures with fewer than 30 people are suppressed for privacy.

** "Unknown/other race" is shown as a % of the row population (county or state). "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals who have Received Booster Doses

Data as of October 17, 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 998 residents	64% of 160,353 residents	52% of 60,923 residents	46% of 105,739 residents	74% of 65,291 residents	49% of 503 residents	69% of 888,545 residents	1% of 1,341,692 Middlesex county residents	65% of 1,341,692 residents
Nantucket	*	57% of 210 residents	35% of 981 residents	27% of 1,926 residents	64% of 162 residents	*	62% of 7,552 residents	1% of 11,788 Nantucket county residents	50% of 11,788 residents
Norfolk	40% of 377 residents	67% of 66,609 residents	53% of 37,908 residents	52% of 26,308 residents	73% of 30,357 residents	50% of 230 residents	68% of 406,677 residents	1% of 587,133 Norfolk county residents	65% of 587,133 residents
Plymouth	36% of 309 residents	62% of 5,333 residents	43% of 38,667 residents	46% of 15,650 residents	64% of 15,606 residents	42% of 132 residents	63% of 305,375 residents	1% of 394,302 Plymouth county residents	59% of 394,302 residents
Suffolk	42% of 629 residents	62% of 64,533 residents	53% of 108,558 residents	47% of 131,970 residents	71% of 22,712 residents	49% of 606 residents	66% of 249,720 residents	1% of 610,510 Suffolk county residents	57% of 610,510 residents
Worcester	33% of 548 residents	61% of 33,173 residents	46% of 27,195 residents	42% of 74,000 residents	67% of 19,606 residents	47% of 219 residents	63% of 442,385 residents	1% of 618,922 Worcester county residents	58% of 618,922 residents
Unknown/ Unspecified**	1% of 5,269 AI/AN residents	2% of 393,100 Asian residents	1% of 354,888 Black residents	1% of 586,475 Hispanic residents	1% of 203,179 Multi-race residents	1% of 2,588 NH/PI residents	1% of 3,738,833 White residents	0% of 5,532,574 MA residents	1% of 5,532,574 residents
Massachusetts	39% of 5,269 residents	62% of 393,100 residents	49% of 354,888 residents	44% of 586,475 residents	70% of 203,179 residents	45% of 2,588 residents	65% of 3,738,833 residents	1% of 5,532,574 MA residents	60% of 5,532,574 residents

* Vaccination figures with fewer than 30 people are suppressed for privacy.

** "Unknown/other race" is shown as a % of the row population (county or state). "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals who have Received Booster Doses

Data as of October 17, 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	16% of 5,150 residents	32% of 5,863 residents	50% of 6,835 residents	42% of 16,012 residents	45% of 17,003 residents	53% of 17,153 residents	61% of 27,867 residents	72% of 18,846 residents	79% of 19,282 residents	83% of 18,060 residents	85% of 29,825 residents	64% of 182,248 residents
Berkshire	16% of 4,472 residents	38% of 3,946 residents	52% of 4,409 residents	43% of 9,929 residents	49% of 10,858 residents	58% of 10,692 residents	64% of 15,293 residents	73% of 9,209 residents	80% of 8,492 residents	80% of 7,608 residents	83% of 11,971 residents	61% of 97,169 residents
Bristol	14% of 13,480 residents	28% of 16,840 residents	44% of 19,205 residents	39% of 44,406 residents	41% of 49,008 residents	49% of 51,152 residents	57% of 65,661 residents	67% of 33,601 residents	74% of 28,906 residents	76% of 23,847 residents	78% of 36,981 residents	54% of 384,177 residents
Dukes	11% of 727 residents	42% of 764 residents	53% of 712 residents	35% of 1,963 residents	44% of 2,645 residents	55% of 2,280 residents	66% of 2,641 residents	77% of 1,424 residents	82% of 1,432 residents	86% of 1,366 residents	93% of 1,730 residents	60% of 17,746 residents
Essex	18% of 32,243 residents	37% of 30,820 residents	52% of 32,670 residents	44% of 72,861 residents	49% of 82,130 residents	57% of 80,879 residents	64% of 100,769 residents	73% of 51,627 residents	79% of 43,679 residents	80% of 35,183 residents	82% of 55,147 residents	58% of 621,149 residents
Franklin	22% of 2,172 residents	44% of 2,066 residents	51% of 2,423 residents	47% of 5,233 residents	54% of 6,597 residents	63% of 6,173 residents	67% of 8,173 residents	74% of 5,166 residents	80% of 5,342 residents	87% of 4,511 residents	84% of 5,409 residents	65% of 53,480 residents
Hampden	12% of 12,974 residents	28% of 14,612 residents	42% of 16,037 residents	38% of 38,099 residents	42% of 40,963 residents	50% of 40,040 residents	59% of 50,402 residents	69% of 27,283 residents	76% of 24,152 residents	79% of 19,754 residents	79% of 30,732 residents	54% of 315,599 residents
Hampshire	34% of 5,693 residents	55% of 4,832 residents	57% of 5,930 residents	53% of 15,354 residents	61% of 13,666 residents	68% of 13,411 residents	72% of 17,347 residents	78% of 10,063 residents	84% of 9,811 residents	87% of 8,501 residents	88% of 11,258 residents	68% of 116,598 residents

* Vaccination figures with less than 30 people are suppressed for privacy.

** "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Booster doses administered: Data on booster doses administered reflect the additional dose of vaccine after completion of the primary series.

Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.) Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals who have Received Booster Doses

Data as of October 17, 2022

Individuals with at least one booster dose administered by county and age group (2 of 2)

Number of people in the county and age group with at least one booster dose divided by the fully vaccinated population in the county and age group

	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
Middlesex	29% of 82,460 residents	50% of 66,205 residents	61% of 65,606 residents	53% of 186,602 residents	61% of 205,938 residents	68% of 181,601 residents	72% of 197,153 residents	78% of 94,730 residents	83% of 79,075 residents	84% of 64,769 residents	85% of 103,457 residents	65% of 1,341,692 residents
Nantucket	11% of 461 residents	31% of 487 residents	43% of 490 residents	26% of 1,644 residents	37% of 2,059 residents	51% of 2,000 residents	60% of 1,905 residents	71% of 826 residents	79% of 698 residents	81% of 536 residents	83% of 669 residents	50% of 11,788 residents
Norfolk	27% of 36,353 residents	47% of 30,007 residents	63% of 30,715 residents	54% of 71,220 residents	60% of 80,398 residents	68% of 76,878 residents	71% of 92,895 residents	77% of 45,150 residents	83% of 37,736 residents	84% of 30,404 residents	85% of 49,835 residents	65% of 587,133 residents
Plymouth	14% of 18,010 residents	32% of 18,768 residents	51% of 21,275 residents	46% of 42,648 residents	48% of 46,652 residents	56% of 50,145 residents	63% of 67,297 residents	72% of 34,257 residents	79% of 30,014 residents	82% of 25,503 residents	83% of 38,184 residents	59% of 394,302 residents
Suffolk	22% of 24,706 residents	35% of 22,542 residents	44% of 26,850 residents	45% of 137,097 residents	57% of 118,514 residents	60% of 77,024 residents	66% of 76,468 residents	73% of 35,196 residents	79% of 29,443 residents	81% of 23,203 residents	83% of 35,907 residents	57% of 610,510 residents
Worcester	17% of 30,137 residents	37% of 30,394 residents	52% of 33,186 residents	45% of 75,799 residents	49% of 82,823 residents	57% of 82,622 residents	64% of 102,211 residents	73% of 51,600 residents	80% of 42,653 residents	81% of 33,953 residents	83% of 51,043 residents	58% of 618,922 residents
Unknown/ Unspecified**	0% of 273,120 MA residents 5-11 Years	0% of 251,091 MA residents 12-15 Years	1% of 274,976 MA residents 16-19 Years	3% of 768,830 MA residents 20-29 Years	2% of 792,866 MA residents 30-39 Years	1% of 713,332 MA residents 40-49 Years	1% of 848,907 MA residents 50-59 Years	1% of 430,087 MA residents 60-64 Years	1% of 368,708 MA residents 65-69 Years	1% of 303,283 MA residents 70-74 Years	1% of 473,113 MA residents 75+ Years	1% of 5,532,574 residents
Massachusetts	22% of 273,120 residents	40% of 251,091 residents	53% of 274,976 residents	47% of 768,830 residents	53% of 792,866 residents	60% of 713,332 residents	65% of 848,907 residents	73% of 430,087 residents	79% of 368,708 residents	81% of 303,283 residents	82% of 473,113 residents	60% of 5,532,574 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.