

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; February 15, 2023.

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 February 20, 2023

	Administered (MII	IS)* through Monda	y, February 20, 202	3 (Running totals b	y day)		
	February 14, 2023	February 15, 2023	February 16, 2023	February 17, 2023	February 18, 2023	February 19, 2023	February 20, 2023
At least one dose number of people who received at least one dose of Moderna, Pfizer, Novavax, or Johnson & Johnson vaccine	6,544,423	6,544,897	6,545,365	6,545,786	6,546,146	6,546,228	6,546,334
Fully vaccinated number of people who received a primary series of Moderna, Pfizer, Novavax or Johnson & Johnson vaccine**	5,630,867	5,631,177	5,631,447	5,631,757	5,631,920	5,631,957	5,632,017
First booster doses number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,506,475	3,507,070	3,507,588	3,508,095	3,508,399	3,508,489	3,508,579
Second booster doses number of people who have received at least 2 booster doses****	1,632,205	1,633,041	1,633,895	1,634,766	1,635,382	1,635,625	1,635,795
Total Doses Administered (MIIS)	17,563,215	17,565,875	17,568,432	17,570,957	17,572,662	17,573,239	17,573,745

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

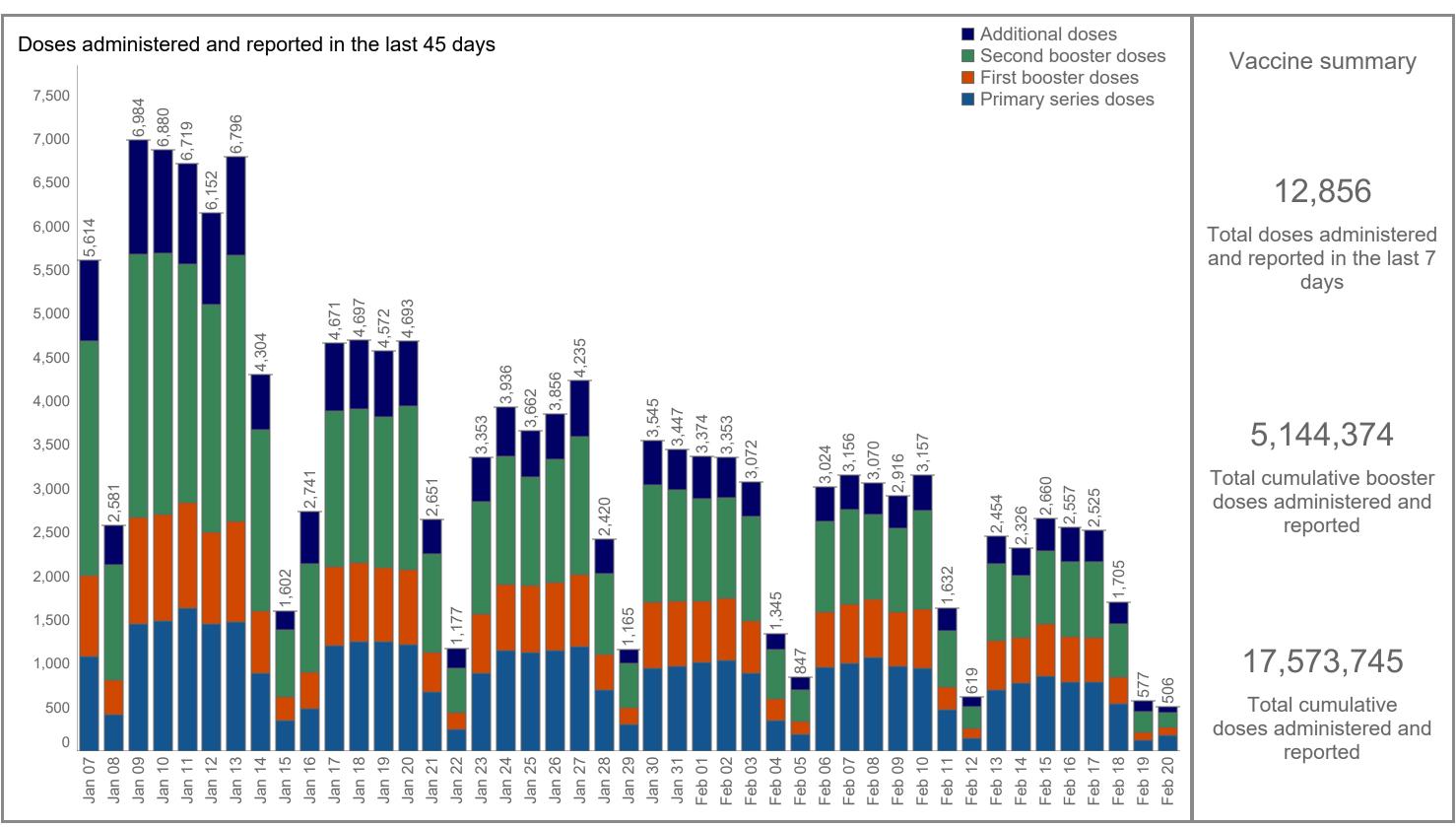
^{**}An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require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

^{***}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.

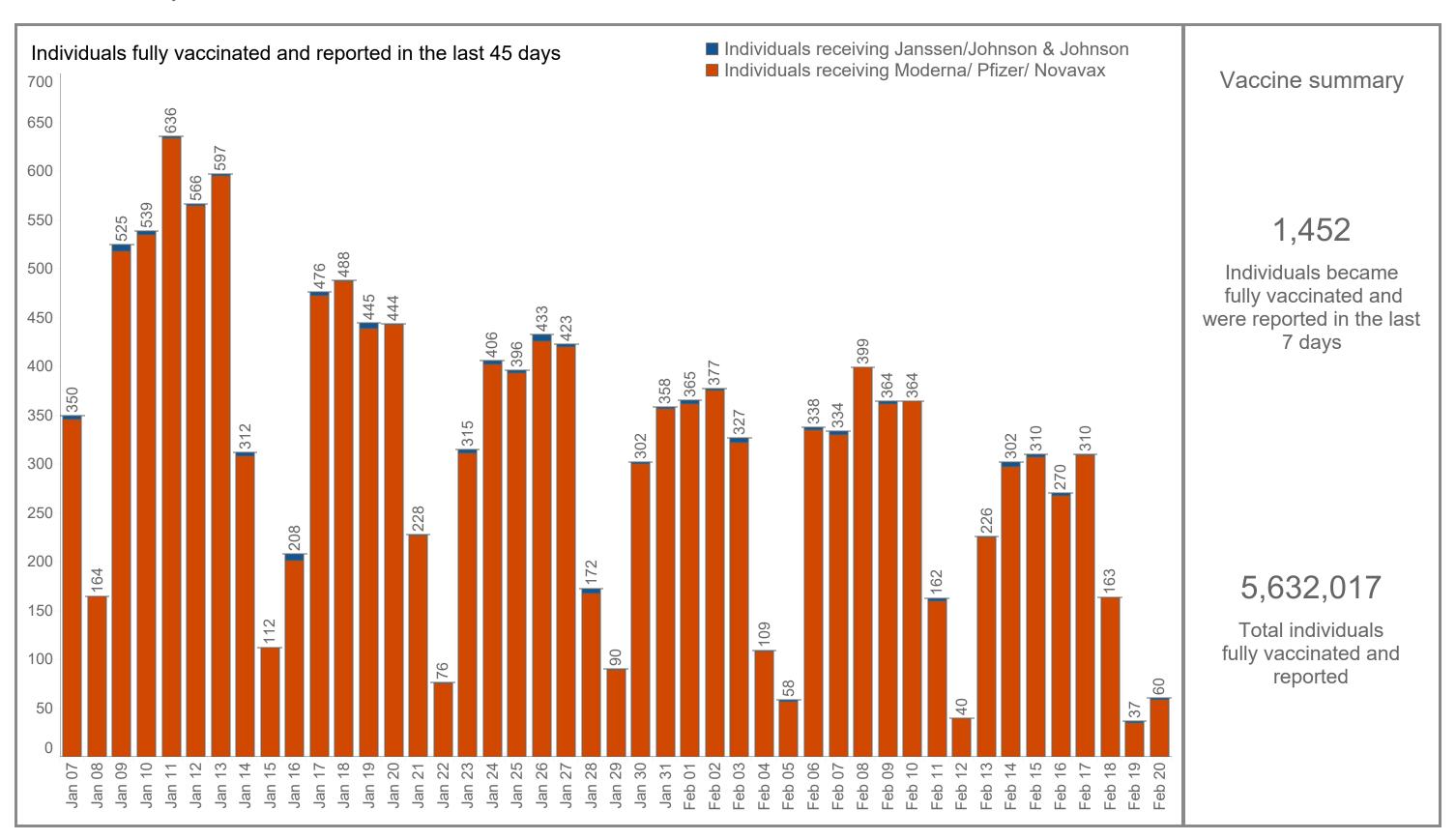
COVID-19 Vaccine Doses Administered

Data as of February 20, 2023



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 of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. See the definitions page at the end of this document.

Data as of February 20, 2023



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.

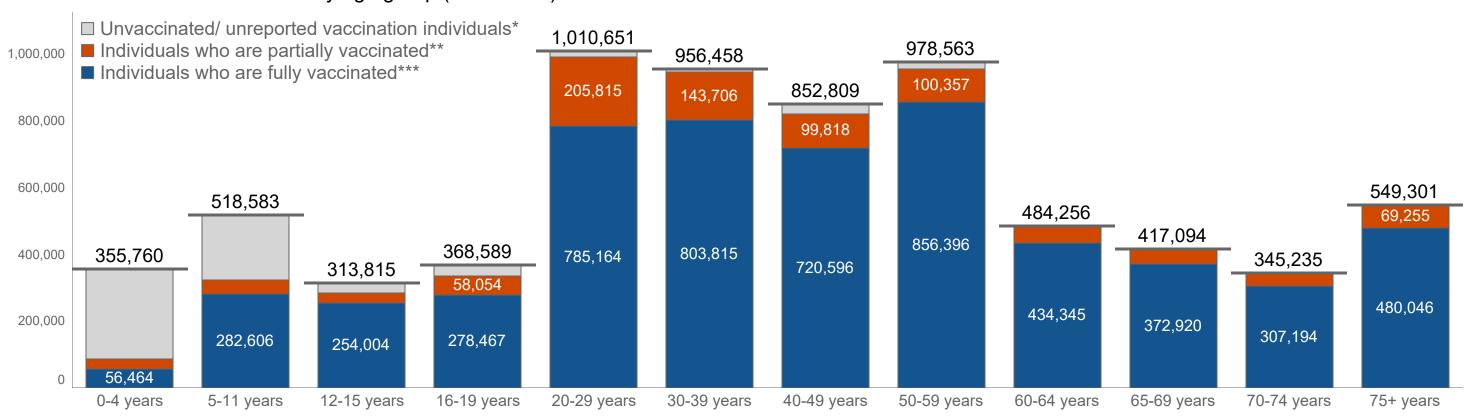
Janssen/Johnson & Johnson recipients require one dose of vaccine.

Individuals with at Least One Dose

Data as of February 20, 2023

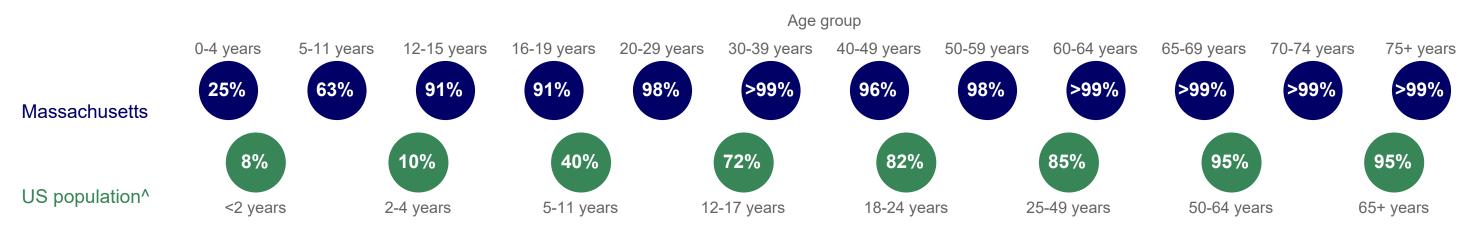
In Massachusetts, 93% of the population has received at least one dose, compared with 81% of the US population.

Vaccination status of individuals by age group (cumulative)



Percent of population with at least one dose

Area Population Estimates for 2011 through 2020, report, Oct 2016.)



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.

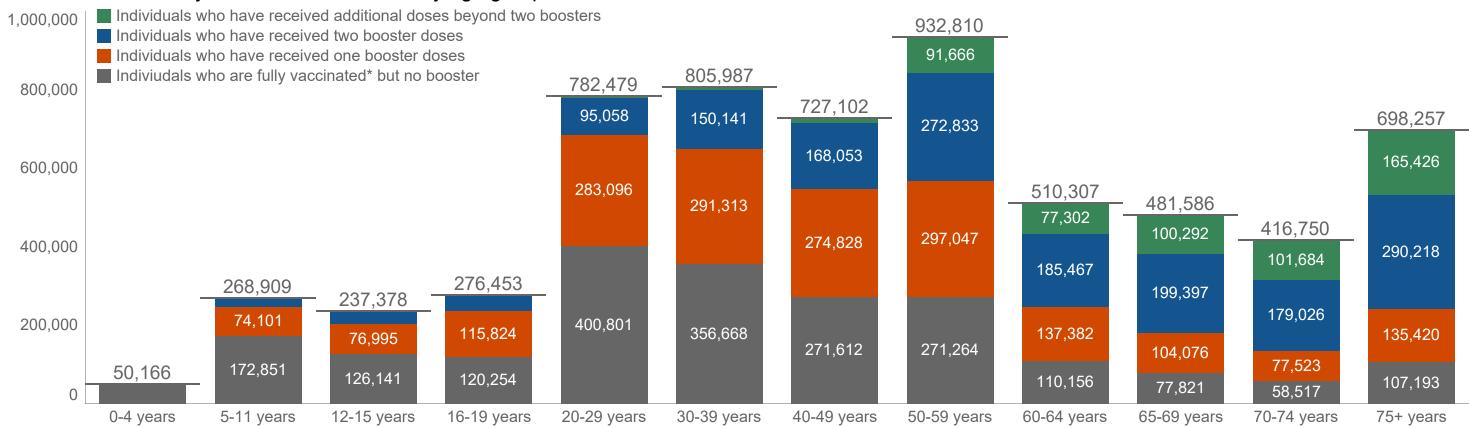
*Unvaccinated/unreported vaccination individuals: This is the population estimate for the subpopulation minus the number of people who received at least one dose of vaccine. It is important to recall that not being represented in MIIS does not necessarily mean someone has not received vaccine. **Individuals 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;2023-02-15://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

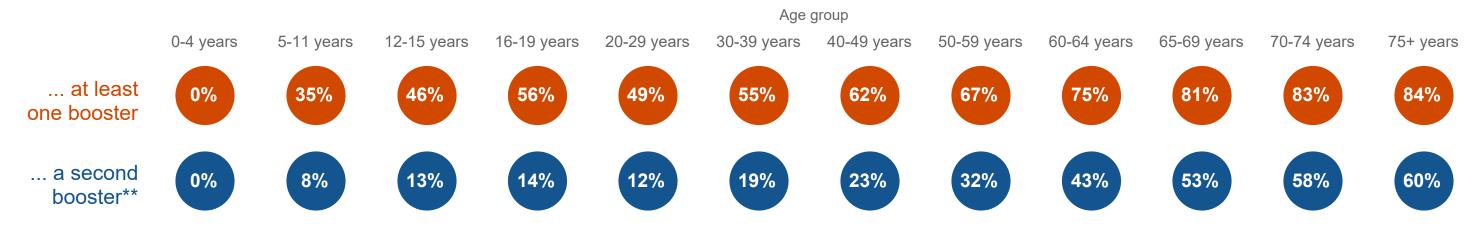
Data as of February 20, 2023

In Massachusetts, 62% 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;2023-02-15. 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.)

Data as of February 20, 2023

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	39% of 12,144 residents	>95% of 53 residents	79% of 198,117 residents	3% of 228,996 Barnstable county residents	81% of 228,996 residents
Berkshire	55% of 153 residents	72% of 1,978 residents	64% of 4,132 residents	63% of 6,619 residents	41% of 5,666 residents	*	77% of 110,470 residents	3% of 129,026 Berkshire county residents	76% of 129,026 residents
Bristol	45% of 1,045 residents	65% of 13,752 residents	77% of 24,506 residents	63% of 53,995 residents	38% 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	23% of 1,899 residents	*	81% of 17,031 residents	8% of 20,600 Dukes county residents	87% of 20,600 residents
Essex	47% of 808 residents	76% of 29,651 residents	79% of 27,604 residents	59% of 181,759 residents	69% of 26,257 residents	>95% of 155 residents	80% of 543,595 residents	3% of 809,829 Essex county residents	78% of 809,829 residents
Franklin	51% of 122 residents	85% of 1,215 residents	66% of 985 residents	57% of 3,329 residents	35% of 3,207 residents	*	77% of 62,163 residents	3% of 71,029 Franklin county residents	77% of 71,029 residents
Hampden	58% of 646 residents	71% of 12,176 residents	61% of 36,442 residents	51% of 120,694 residents	56% of 15,087 residents	>95% of 165 residents	71% of 280,615 residents	4% of 465,825 Hampden county residents	69% of 465,825 residents
Hampshire	49% of 199 residents	52% of 10,709 residents	53% of 4,398 residents	50% of 11,248 residents	44% of 6,930 residents	>95% of 43 residents	76% of 128,781 residents	3% of 162,308 Hampshire county residents	73% of 162,308 residents

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

^{** &}quot;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).

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Data as of February 20, 2023

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	78% of 212,123 residents	73% of 84,324 residents	76% of 141,738 residents	85% of 81,692 residents	>95% of 380 residents	81% of 1,110,235 residents	4% of 1,632,002 Middlesex county residents	84% of 1,632,002 residents
Nantucket	*	76% of 274 residents	>95% of 1,025 residents	89% of 2,175 residents	29% of 615 residents	*	76% of 10,149 residents	7% of 14,255 Nantucket county residents	84% of 14,255 residents
Norfolk	49% of 736 residents	77% of 88,772 residents	76% of 50,563 residents	72% of 37,460 residents	>95% of 29,540 residents	>95% of 151 residents	80% 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	68% of 23,417 residents	46% of 35,840 residents	61% of 220 residents	75% of 414,238 residents	2% of 530,819 Plymouth county residents	75% of 530,819 residents
Suffolk	51% of 1,235 residents	81% of 81,295 residents	78% of 142,086 residents	76% of 177,973 residents	64% of 37,543 residents	>95% of 357 residents	71% of 357,446 residents	4% of 797,936 Suffolk county residents	78% of 797,936 residents
Worcester	46% of 1,183 residents	72% of 46,778 residents	62% of 45,164 residents	69% of 110,448 residents	56% of 37,582 residents	>95% of 145 residents	72% of 620,810 residents	2% of 862,111 Worcester county residents	73% 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	79% of 510,096 residents	76% of 476,930 residents	68% of 878,944 residents	67% of 326,050 residents	>95% of 1,841 residents	79% of 4,826,116 residents	3% of 7,029,917 MA residents	80% of 7,029,917 residents

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Data as of February 20, 2023

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	9%	43%	74%	82%	73%	85%	81%	83%	90%	90%	93%	>95%	81%
	of 8,117	of 12,225	of 7,999	of 8,444	of 22,109	of 20,313	of 21,363	of 34,083	of 21,351	of 21,806	of 19,831	of 31,352	of 228,996
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Berkshire	11%	55%	74%	69%	65%	80%	79%	81%	88%	90%	>95%	90%	76%
	of 5,429	of 8,296	of 5,380	of 6,484	of 15,369	of 13,757	of 13,736	of 19,125	of 10,525	of 9,518	of 8,017	of 13,390	of 129,026
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Bristol	6% of 30,091 residents	31% of 45,540 residents	62% of 27,527 residents	67% of 29,121 residents	60% of 74,766 residents	67% of 73,958 residents	71% of 73,224 residents	78% of 85,414 residents	87% of 39,125 residents	92% of 31,728 residents	94% of 25,741 residents	87% of 42,964 residents	67% of 579,200 residents
Dukes	10%	59%	>95%	>95%	>95%	>95%	94%	85%	84%	81%	88%	91%	87%
	of 882	of 1,267	of 785	of 653	of 2,070	of 2,359	of 2,432	of 3,147	of 1,702	of 1,801	of 1,574	of 1,929	of 20,600
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Essex	12% of 44,345 residents	52% of 64,079 residents	80% of 38,871 residents	79% of 41,764 residents	72% of 102,396 residents	82% of 101,407 residents	82% of 99,259 residents	86% of 118,474 residents	93% of 56,226 residents	>95% of 46,143 residents	>95% of 36,776 residents	93% of 60,087 residents	78% of 809,829 residents
Franklin	12%	47%	73%	89%	70%	76%	75%	80%	85%	92%	>95%	92%	77%
	of 3,011	of 4,819	of 2,910	of 2,764	of 7,572	of 8,732	of 8,315	of 10,333	of 6,159	of 5,875	of 4,581	of 5,954	of 71,029
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Hampden	4%	36%	64%	62%	59%	70%	76%	81%	88%	94%	>95%	90%	69%
	of 24,918	of 38,042	of 23,128	of 26,022	of 65,472	of 59,405	of 53,671	of 62,992	of 31,187	of 25,936	of 20,519	of 34,534	of 465,825
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Hampshire	22%	66%	82%	38%	47%	84%	85%	87%	>95%	>95%	>95%	>95%	73%
	of 5,278	of 8,930	of 5,934	of 16,019	of 33,434	of 16,604	of 16,047	of 20,206	of 10,664	of 9,895	of 7,914	of 11,383	of 162,308
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents

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^{** &}quot;Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

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Data as of February 20, 2023

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	26%	70%	92%	80%	79%	86%	89%	89%	95%	>95%	>95%	95%	84%
	of 83,667	of 121,734	of 73,083	of 82,715	of 242,436	of 242,118	of 206,995	of 222,367	of 100,804	of 81,083	of 64,640	of 110,359	of 1,632,002
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Nantucket	4%	47%	87%	>95%	>95%	94%	92%	92%	88%	93%	>95%	82%	84%
	of 857	of 1,012	of 562	of 507	of 1,722	of 2,214	of 2,184	of 2,082	of 945	of 764	of 562	of 847	of 14,255
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Norfolk	24%	66%	86%	85%	80%	85%	83%	88%	94%	>95%	>95%	90%	82%
	of 37,515	of 56,630	of 35,180	of 36,428	of 90,767	of 95,497	of 93,243	of 105,961	of 48,444	of 39,164	of 31,323	of 55,829	of 725,981
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Plymouth	10%	44%	71%	79%	70%	77%	77%	83%	90%	95%	>95%	>95%	75%
	of 27,514	of 42,518	of 26,597	of 27,177	of 61,517	of 61,280	of 65,393	of 81,528	of 38,334	of 31,886	of 26,374	of 40,701	of 530,819
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Suffolk	16%	55%	86%	59%	79%	82%	87%	88%	89%	92%	>95%	87%	78%
	of 40,171	of 47,420	of 26,325	of 46,527	of 176,345	of 145,860	of 88,768	of 87,549	of 40,123	of 32,272	of 24,580	of 41,995	of 797,936
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Worcester	10%	45%	73%	72%	67%	75%	77%	81%	88%	94%	>95%	89%	73%
	of 45,082	of 68,600	of 42,016	of 46,659	of 114,476	of 111,763	of 108,360	of 126,900	of 58,820	of 46,033	of 35,450	of 57,952	of 862,111
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	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	3% 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	16% of 356,875 residents	54% of 521,112 residents	80% of 316,296 residents	75% of 371,285 residents	78% of 1,010,451 residents	84% of 955,267 residents	84% of 852,990 residents	87% of 980,162 residents	94% of 464,409 residents	>95% of 383,903 residents	>95% of 307,883 residents	94% of 509,277 residents	80% of 7,029,917 residents

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^{** &}quot;Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

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Data as of February 20, 2023

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	57% of 529 residents	61% of 2,276 residents	40% of 5,322 residents	50% of 8,220 residents	73% of 4,681 residents	41% of 95 residents	70% of 157,347 residents	1% of 185,499 Barnstable county residents	66% of 185,499 residents
Berkshire	43% of 84 residents	55% of 1,430 residents	48% of 2,656 residents	49% of 4,157 residents	67% of 2,324 residents	*	66% of 84,662 residents	1% of 98,662 Berkshire county residents	64% of 98,662 residents
Bristol	34% of 474 residents	55% of 8,911 residents	46% of 18,943 residents	43% of 34,048 residents	66% of 12,137 residents	35% of 178 residents	60% of 300,192 residents	1% of 389,825 Bristol county residents	56% of 389,825 residents
Dukes	61% of 113 residents	66% of 174 residents	46% of 873 residents	45% of 960 residents	70% of 430 residents	*	70% of 13,722 residents	2% of 17,955 Dukes county residents	63% of 17,955 residents
Essex	37% of 378 residents	64% of 22,437 residents	50% of 21,834 residents	45% of 108,028 residents	71% of 18,091 residents	47% of 209 residents	67% of 434,567 residents	1% of 629,958 Essex county residents	61% of 629,958 residents
Franklin	48% of 63 residents	58% of 1,029 residents	51% of 652 residents	53% of 1,905 residents	75% of 1,134 residents	*	70% of 47,654 residents	1% of 54,353 Franklin county residents	67% of 54,353 residents
Hampden	39% of 372 residents	56% of 8,674 residents	51% of 22,120 residents	45% of 62,007 residents	67% of 8,464 residents	46% of 188 residents	63% of 200,098 residents	2% of 320,482 Hampden county residents	57% of 320,482 residents
Hampshire	59% of 97 residents	62% of 5,528 residents	58% of 2,326 residents	58% of 5,588 residents	78% of 3,041 residents	*	73% of 97,240 residents	1% of 118,752 Hampshire county residents	70% of 118,752 residents

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

^{** &}quot;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 were created with small, compounded rounding and records with unknown demographic information.

Data as of February 20, 2023

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	42% of 992 residents	67% of 164,770 residents	56% of 61,898 residents	49% of 107,890 residents	77% of 69,614 residents	49% of 495 residents	72% of 903,929 residents	1% of 1,368,079 Middlesex county residents	67% of 1,368,079 residents
Nantucket	*	62% of 207 residents	36% of 991 residents	29% of 1,942 residents	69% of 179 residents	*	64% of 7,684 residents	1% of 11,939 Nantucket county residents	52% of 11,939 residents
Norfolk	39% of 361 residents	69% of 68,235 residents	56% of 38,416 residents	55% of 26,822 residents	76% of 32,197 residents	52% of 229 residents	70% of 412,900 residents	1% of 597,504 Norfolk county residents	68% of 597,504 residents
Plymouth	37% of 301 residents	64% of 5,370 residents	46% of 39,297 residents	48% of 15,950 residents	67% of 16,618 residents	45% of 135 residents	65% of 309,142 residents	1% of 399,794 Plymouth county residents	61% of 399,794 residents
Suffolk	43% of 630 residents	64% of 66,166 residents	57% of 110,164 residents	51% of 134,686 residents	74% of 24,046 residents	49% of 601 residents	68% of 254,653 residents	1% of 622,337 Suffolk county residents	60% of 622,337 residents
Worcester	35% of 541 residents	64% of 33,837 residents	50% of 27,793 residents	45% of 75,676 residents	71% of 21,149 residents	46% of 214 residents	65% of 448,028 residents	1% of 628,180 Worcester county residents	61% of 628,180 residents
Unknown/ Unspecified**	2% of 5,220 AI/AN residents	2% of 403,126 Asian residents	1% of 360,727 Black residents	1% of 599,945 Hispanic residents	1% of 217,875 Multi-race residents	1% of 2,572 NH/PI residents	1% of 3,800,419 White residents	0% of 5,632,017 MA residents	1% of 5,632,017 residents
Massachusetts	41% of 5,220 residents	65% of 403,126 residents	53% of 360,727 residents	48% of 599,945 residents	73% of 217,875 residents	47% of 2,572 residents	67% of 3,800,419 residents	1% of 5,632,017 MA residents	62% of 5,632,017 residents

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

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 were created with small, compounded rounding and records with unknown demographic information.

^{** &}quot;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.)

Data as of February 20, 2023

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	28%	39%	52%	44%	47%	55%	63%	74%	81%	85%	87%	66%
	of 5,314	of 5,908	of 6,903	of 16,182	of 17,196	of 17,363	of 28,225	of 19,189	of 19,654	of 18,400	of 30,461	of 185,499
	residents	residents	residents	residents	residents	residents						
Berkshire	28%	43%	55%	45%	51%	60%	66%	76%	82%	83%	85%	64%
	of 4,604	of 3,991	of 4,479	of 10,043	of 10,996	of 10,814	of 15,452	of 9,303	of 8,583	of 7,698	of 12,111	of 98,662
	residents	residents	residents	residents	residents	residents						
Bristol	23%	32%	48%	42%	43%	51%	60%	70%	76%	79%	80%	56%
	of 14,147	of 17,043	of 19,438	of 45,057	of 49,606	of 51,695	of 66,273	of 33,867	of 29,203	of 24,111	of 37,468	of 389,825
	residents	residents	residents	residents	residents	residents						
Dukes	30%	49%	58%	37%	46%	57%	68%	79%	82%	85%	94%	63%
	of 749	of 769	of 721	of 1,977	of 2,657	of 2,290	of 2,672	of 1,433	of 1,461	of 1,390	of 1,752	of 17,955
	residents	residents	residents	residents	residents	residents						
Essex	30% of 33,322 residents	43% of 31,129 residents	56% of 32,989 residents	47% of 73,785 residents	52% of 82,919 residents	59% of 81,516 residents	66% of 101,443 residents	75% of 52,015 residents	81% of 44,081 residents	82% of 35,558 residents	84% of 55,899 residents	61% of 629,958 residents
Franklin	34%	50%	53%	49%	57%	65%	69%	76%	83%	90%	87%	67%
	of 2,263	of 2,128	of 2,466	of 5,329	of 6,655	of 6,237	of 8,246	of 5,231	of 5,392	of 4,578	of 5,457	of 54,353
	residents	residents	residents	residents	residents	residents						
Hampden	22%	34%	45%	40%	44%	53%	61%	71%	78%	81%	81%	57%
	of 13,625	of 14,829	of 16,256	of 38,664	of 41,485	of 40,551	of 50,930	of 27,583	of 24,422	of 19,979	of 31,134	of 320,482
	residents	residents	residents	residents	residents	residents						
Hampshire	48% of 5,853 residents	62% of 4,876 residents	60% of 6,064 residents	55% of 15,709 residents	62% of 13,924 residents	70% of 13,581 residents	73% of 17,519 residents	80% of 10,187 residents	85% of 9,907 residents	89% of 8,588 residents	90% of 11,363 residents	70% of 118,752 residents

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

^{** &}quot;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.

Data as of February 20, 2023

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	43% of 84,891 residents	56% of 66,979 residents	64% of 66,269 residents	54% of 191,427 residents	63% of 209,132 residents	70% of 183,646 residents	74% of 198,682 residents	79% of 95,486 residents	85% of 79,721 residents	86% of 65,449 residents	87% of 104,756 residents	67% of 1,368,079 residents
Nantucket	20% of 474 residents	36% of 491 residents	46% of 494 residents	28% of 1,653 residents	38% of 2,076 residents	52% of 2,009 residents	61% of 1,924 residents	73% of 828 residents	80% of 714 residents	84% of 546 residents	83% of 696 residents	52% of 11,939 residents
Norfolk	40% of 37,446 residents	54% of 30,362 residents	66% of 30,984 residents	56% of 72,468 residents	62% of 81,448 residents	70% of 77,699 residents	73% of 93,537 residents	79% of 45,419 residents	85% of 38,004 residents	86% of 30,704 residents	87% of 50,419 residents	68% of 597,504 residents
Plymouth	25% of 18,629 residents	38% of 18,987 residents	54% of 21,462 residents	47% of 43,133 residents	50% of 47,198 residents	58% of 50,498 residents	65% of 67,787 residents	74% of 34,566 residents	81% of 30,291 residents	83% of 25,804 residents	85% of 38,717 residents	61% of 399,794 residents
Suffolk	36% of 25,894 residents	43% of 22,764 residents	48% of 27,273 residents	47% of 140,079 residents	59% of 120,052 residents	63% of 77,598 residents	68% of 77,108 residents	76% of 35,521 residents	81% of 29,709 residents	83% of 23,440 residents	85% of 36,344 residents	60% of 622,337 residents
Worcester	28% of 31,185 residents	42% of 30,728 residents	55% of 33,488 residents	47% of 76,965 residents	51% of 83,907 residents	59% of 83,397 residents	66% of 102,998 residents	75% of 52,017 residents	82% of 43,054 residents	83% of 34,319 residents	85% of 51,641 residents	61% of 628,180 residents
Unknown/ Unspecified**	0% of 282,606 MA residents 5-11 Years	0% of 254,004 MA residents 12-15 Years	1% of 278,467 MA residents 16-19 Years	3% of 785,164 MA residents 20-29 Years	2% of 803,815 MA residents 30-39 Years	1% of 720,596 MA residents 40-49 Years	1% of 856,396 MA residents 50-59 Years	1% of 434,345 MA residents 60-64 Years	1% of 372,920 MA residents 65-69 Years	1% of 307,194 MA residents 70-74 Years	1% of 480,046 MA residents 75+ Years	1% of 5,632,017 residents
Massachusetts	35% of 282,606 residents	46% of 254,004 residents	56% of 278,467 residents	49% of 785,164 residents	55% of 803,815 residents	62% of 720,596 residents	67% of 856,396 residents	75% of 434,345 residents	81% of 372,920 residents	83% of 307,194 residents	84% of 480,046 residents	62% of 5,632,017 residents

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

^{** &}quot;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 severed 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 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.