

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; December 7, 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 December 12, 2022

	Administered (MII	S)* through Monda	y, December 12, 20	22 (Running totals	by day)		
	December 6, 2022	December 7, 2022	December 8, 2022	December 9, 2022	December 10, 2022	December 11, 2022	December 12, 2022
At least one dose number of people who received at least one dose of Moderna, Pfizer, Novavax, or Johnson & Johnson vaccine	6,519,858	6,521,811	6,523,919	6,526,095	6,527,755	6,528,692	6,529,689
Fully vaccinated number of people who received a primary series of Moderna, Pfizer, Novavax or Johnson & Johnson vaccine**	5,598,870	5,599,800	5,600,816	5,601,773	5,602,287	5,602,591	5,603,095
First booster doses number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,426,931	3,428,588	3,430,304	3,431,842	3,432,927	3,433,541	3,434,516
Second booster doses number of people who have received at least 2 booster doses****	1,443,741	1,448,537	1,453,595	1,459,107	1,462,683	1,464,895	1,467,398
Total Doses Administered (MIIS)	17,160,345	17,172,157	17,184,560	17,197,227	17,205,389	17,210,327	17,216,449

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

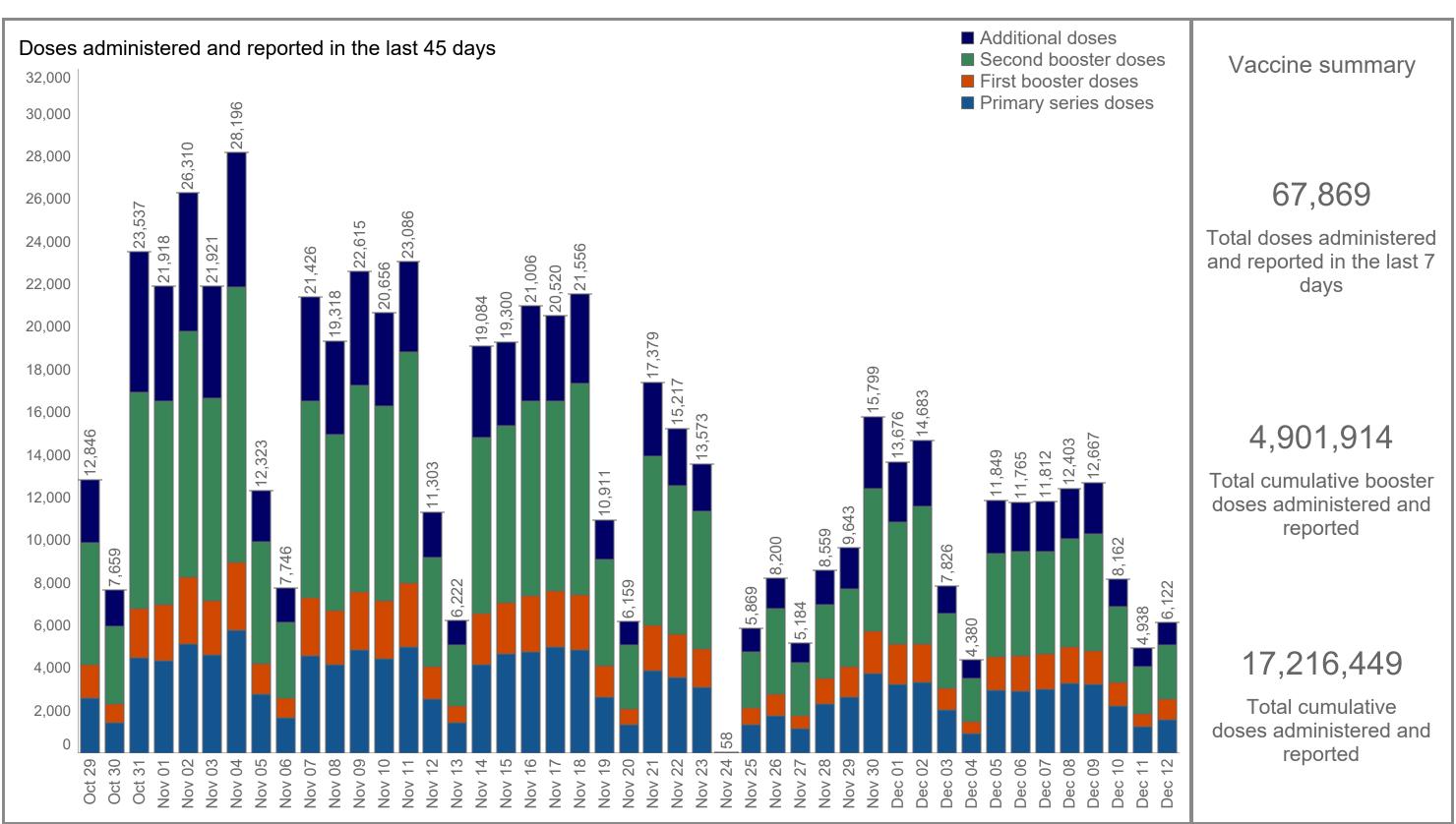
^{**}An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require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

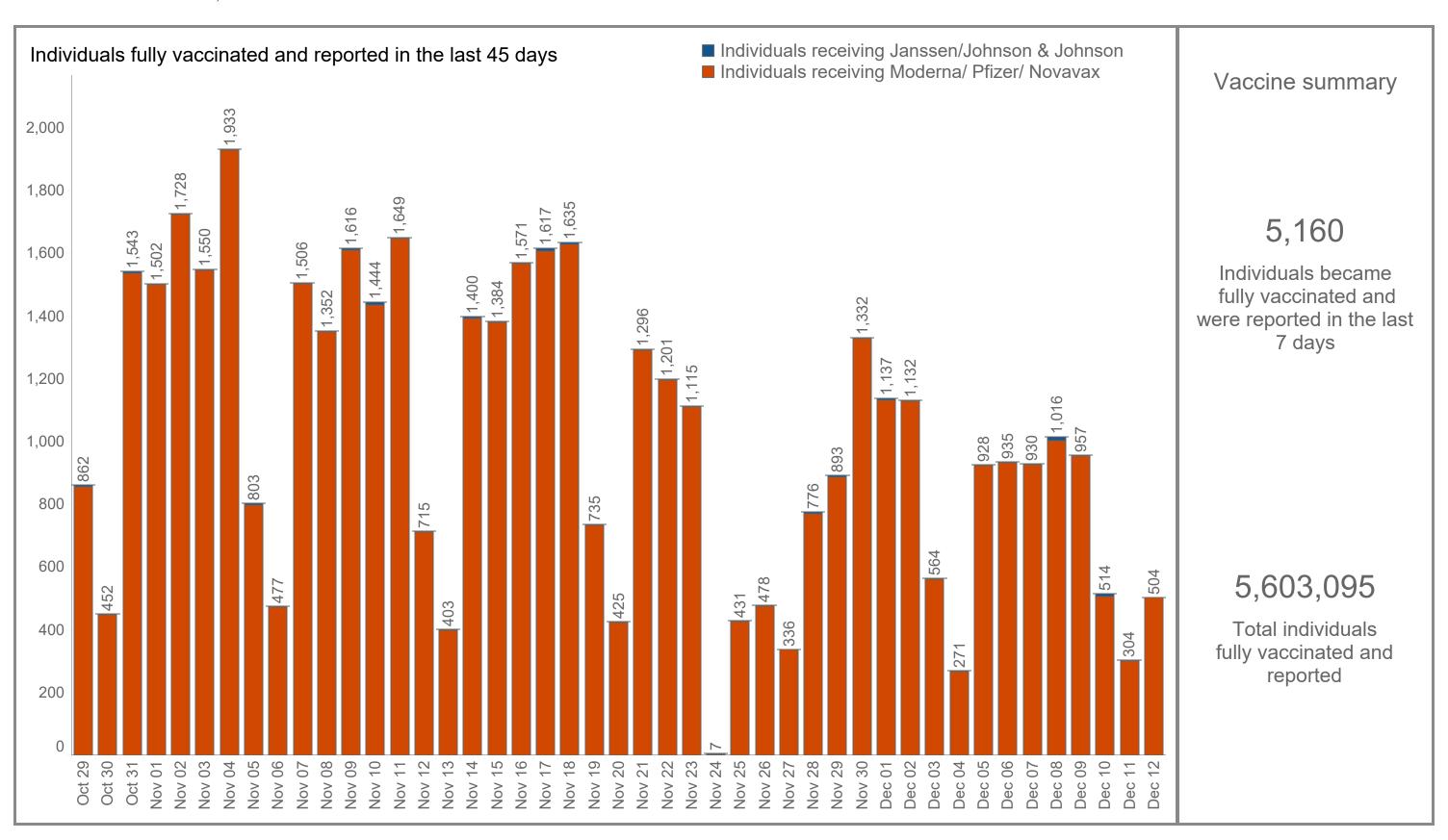
COVID-19 Vaccine Doses Administered

Data as of December 12, 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 of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. See the definitions page at the end of this document.

Data as of December 12, 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.

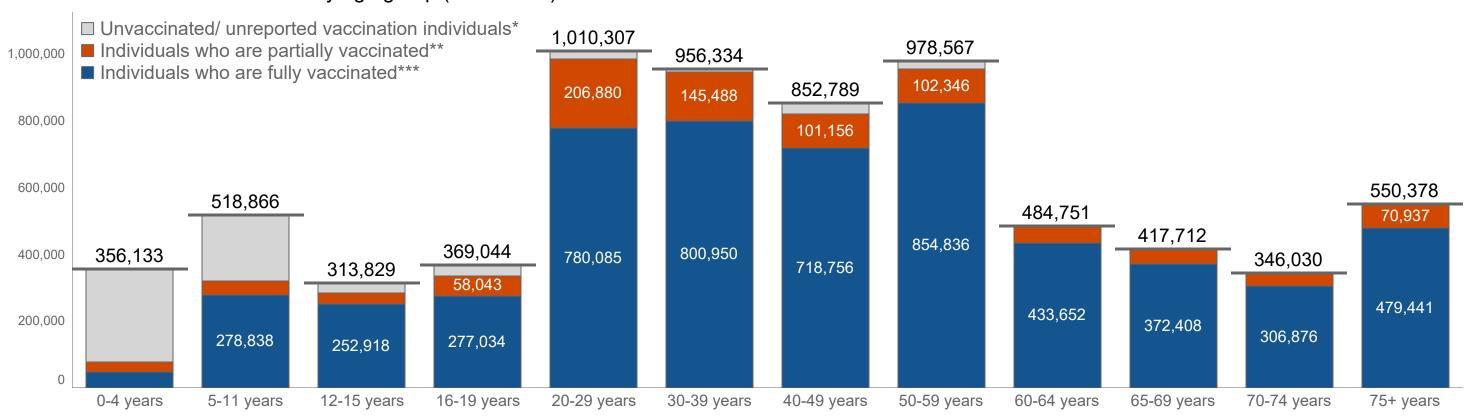
Janssen/Johnson & Johnson recipients require one dose of vaccine.

Individuals with at Least One Dose

Data as of December 12, 2022

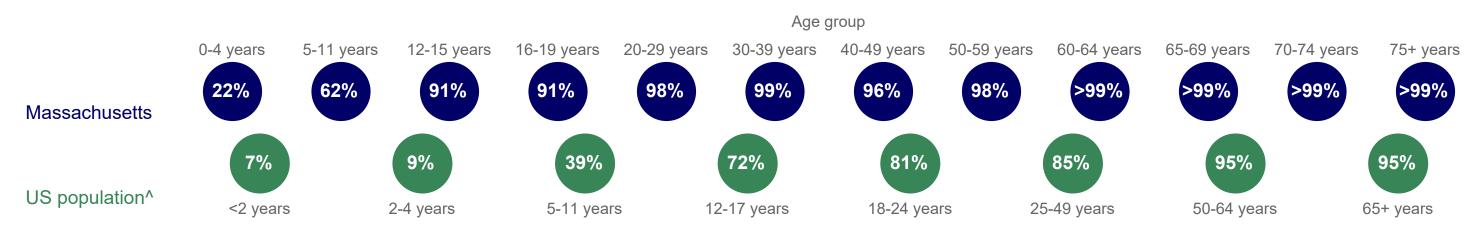
In Massachusetts, 93% of the population has received at least one dose, compared with 81% of the US population.

Vaccination status of individuals by age group (cumulative)



Percent of population with at least one dose

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.

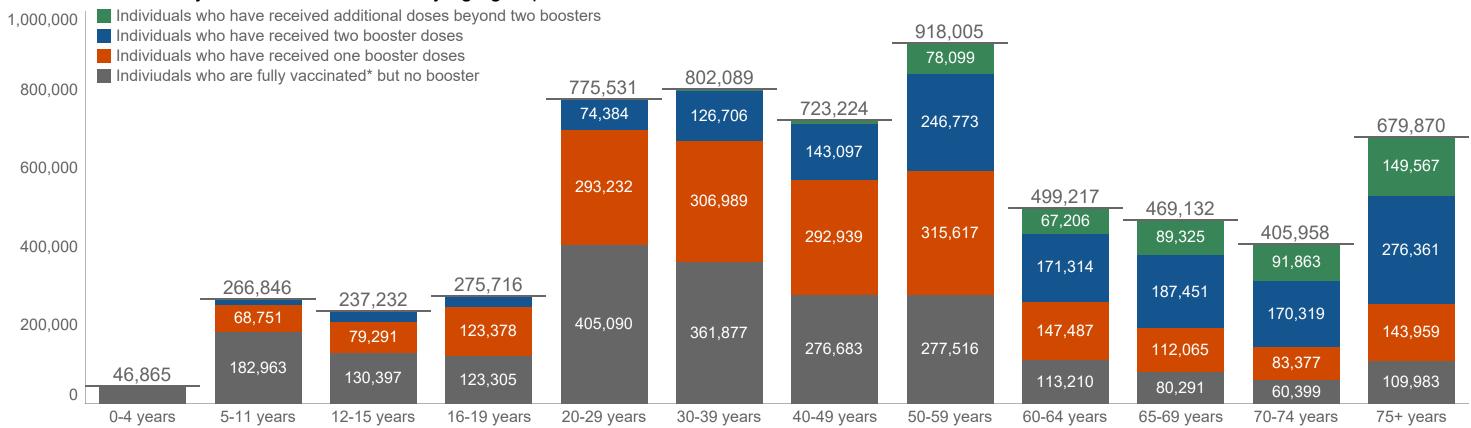
*Unvaccinated/unreported vaccination individuals: This is the population estimate for the subpopulation minus the number of people who received at least one dose of vaccine. It is important to recall that not being represented in MIIS does not necessarily mean someone has not received vaccine. **Individuals 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;2022-12-07://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

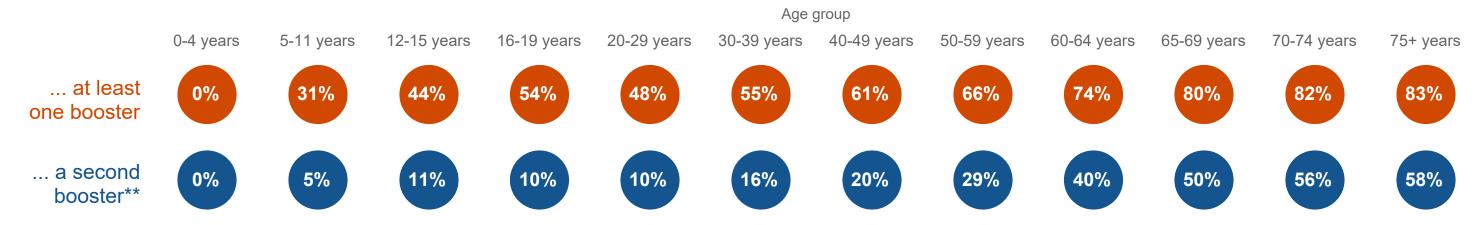
Data as of December 12, 2022

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

Booster status of fully vaccinated individuals by age group



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



Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.

*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;2022-12-07. 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 December 12, 2022

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

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

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Barnstable	45% of 1,171 residents	70% of 3,230 residents	80% of 6,644 residents	>95% of 7,637 residents	37% of 12,144 residents	>95% of 53 residents	79% of 198,117 residents	3% of 228,996 Barnstable county residents	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	40% 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	65% of 13,752 residents	76% of 24,506 residents	62% of 53,995 residents	37% of 32,048 residents	>95% of 148 residents	66% of 453,707 residents	3% of 579,200 Bristol county residents	67% of 579,200 residents
Dukes	52% of 219 residents	>95% of 181 residents	>95% of 809 residents	>95% of 452 residents	22% of 1,899 residents	*	80% of 17,031 residents	8% of 20,600 Dukes county residents	87% of 20,600 residents
Essex	46% of 808 residents	75% of 29,651 residents	79% of 27,604 residents	59% of 181,759 residents	68% of 26,257 residents	>95% of 155 residents	80% of 543,595 residents	3% of 809,829 Essex county residents	77% of 809,829 residents
Franklin	52% of 122 residents	84% of 1,215 residents	66% of 985 residents	56% of 3,329 residents	34% of 3,207 residents	*	76% of 62,163 residents	3% of 71,029 Franklin county residents	76% of 71,029 residents
Hampden	59% of 646 residents	71% of 12,176 residents	60% of 36,442 residents	51% of 120,694 residents	55% 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	51% of 199 residents	51% of 10,709 residents	53% of 4,398 residents	49% of 11,248 residents	43% of 6,930 residents	>95% of 43 residents	75% of 128,781 residents	3% of 162,308 Hampshire county residents	73% of 162,308 residents

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

^{** &}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).

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. 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.

Data as of December 12, 2022

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

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

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Middlesex	66% of 1,511 residents	77% of 212,123 residents	73% of 84,324 residents	75% of 141,738 residents	84% of 81,692 residents	>95% of 380 residents	81% of 1,110,235 residents	4% of 1,632,002 Middlesex county residents	83% of 1,632,002 residents
Nantucket	*	77% of 274 residents	>95% of 1,025 residents	89% of 2,175 residents	28% of 615 residents	*	76% of 10,149 residents	7% of 14,255 Nantucket county residents	84% of 14,255 residents
Norfolk	51% of 736 residents	76% of 88,772 residents	76% of 50,563 residents	71% of 37,460 residents	>95% of 29,540 residents	>95% of 151 residents	79% of 518,759 residents	3% of 725,981 Norfolk county residents	82% of 725,981 residents
Plymouth	34% of 893 residents	67% of 7,962 residents	81% of 48,249 residents	68% of 23,417 residents	45% of 35,840 residents	60% of 220 residents	74% of 414,238 residents	2% of 530,819 Plymouth county residents	75% of 530,819 residents
Suffolk	51% of 1,235 residents	81% of 81,295 residents	77% of 142,086 residents	75% of 177,973 residents	63% of 37,543 residents	>95% of 357 residents	71% of 357,446 residents	4% of 797,936 Suffolk county residents	78% of 797,936 residents
Worcester	47% of 1,183 residents	72% of 46,778 residents	61% of 45,164 residents	68% of 110,448 residents	55% of 37,582 residents	>95% of 145 residents	72% of 620,810 residents	2% of 862,111 Worcester county residents	72% of 862,111 residents
Unknown/ Unspecified**	3% of 9,939 AI/AN residents	3% of 510,096 Asian residents	2% of 476,930 Black residents	1% of 878,944 Hispanic residents	1% of 326,050 Multi-race residents	7% of 1,841 NH/PI residents	3% of 4,826,116 White residents	0% of 7,029,917 MA residents	3% of 7,029,917 residents
Massachusetts	53% of 9,939 residents	78% of 510,096 residents	75% of 476,930 residents	67% of 878,944 residents	65% of 326,050 residents	>95% of 1,841 residents	78% of 4,826,116 residents	3% of 7,029,917 MA residents	80% of 7,029,917 residents

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Data as of December 12, 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	7%	43%	74%	82%	73%	84%	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	9%	55%	74%	69%	65%	80%	79%	81%	88%	90%	>95%	91%	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	5%	31%	62%	66%	60%	67%	70%	77%	86%	92%	94%	87%	67%
	of 30,091	of 45,540	of 27,527	of 29,121	of 74,766	of 73,958	of 73,224	of 85,414	of 39,125	of 31,728	of 25,741	of 42,964	of 579,200
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Dukes	9%	58%	>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	10%	51%	80%	79%	72%	82%	82%	85%	92%	>95%	>95%	93%	77%
	of 44,345	of 64,079	of 38,871	of 41,764	of 102,396	of 101,407	of 99,259	of 118,474	of 56,226	of 46,143	of 36,776	of 60,087	of 809,829
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Franklin	10%	46%	73%	89%	70%	76%	75%	80%	85%	92%	>95%	92%	76%
	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	3%	35%	64%	62%	59%	69%	75%	81%	88%	94%	>95%	90%	68%
	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	19%	65%	82%	38%	47%	83%	84%	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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Data as of December 12, 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	22% of 83,667 residents	69% of 121,734 residents	91% of 73,083 residents	80% of 82,715 residents	78% of 242,436 residents	86% of 242,118 residents	88% of 206,995 residents	89% of 222,367 residents	95% of 100,804 residents	>95% of 81,083 residents	>95% of 64,640 residents	95% of 110,359 residents	83% of 1,632,002 residents
Nantucket	*	46% of 1,012 residents	87% of 562 residents	>95% of 507 residents	>95% of 1,722 residents	94% of 2,214 residents	92% of 2,184 residents	92% of 2,082 residents	88% of 945 residents	93% of 764 residents	>95% of 562 residents	82% of 847 residents	84% of 14,255 residents
Norfolk	20% of 37,515 residents	65% of 56,630 residents	86% of 35,180 residents	85% of 36,428 residents	79% of 90,767 residents	85% of 95,497 residents	83% of 93,243 residents	88% of 105,961 residents	94% of 48,444 residents	>95% of 39,164 residents	>95% of 31,323 residents	90% of 55,829 residents	82% of 725,981 residents
Plymouth	8% of 27,514 residents	43% of 42,518 residents	71% of 26,597 residents	79% of 27,177 residents	70% of 61,517 residents	77% of 61,280 residents	77% of 65,393 residents	83% of 81,528 residents	90% of 38,334 residents	95% of 31,886 residents	>95% of 26,374 residents	95% of 40,701 residents	75% of 530,819 residents
Suffolk	13% of 40,171 residents	54% of 47,420 residents	86% of 26,325 residents	58% of 46,527 residents	79% of 176,345 residents	82% of 145,860 residents	87% of 88,768 residents	88% of 87,549 residents	88% of 40,123 residents	92% of 32,272 residents	>95% of 24,580 residents	86% of 41,995 residents	78% of 797,936 residents
Worcester	8% of 45,082 residents	45% of 68,600 residents	73% of 42,016 residents	71% of 46,659 residents	67% of 114,476 residents	75% of 111,763 residents	77% of 108,360 residents	81% of 126,900 residents	88% of 58,820 residents	93% of 46,033 residents	>95% of 35,450 residents	89% of 57,952 residents	72% of 862,111 residents
Unknown/ Unspecified**	0% of 356,875 MA residents 0-4 Years	1% of 521,112 MA residents 5-11 Years	1% of 316,296 MA residents 12-15 Years	2% of 371,285 MA residents 16-19 Years	5% of 1,010,451 MA residents 20-29 Years	4% of 955,267 MA residents 30-39 Years	3% of 852,990 MA residents 40-49 Years	2% of 980,162 MA residents 50-59 Years	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	13% of 356,875 residents	54% of 521,112 residents	80% of 316,296 residents	75% of 371,285 residents	77% of 1,010,451 residents	84% of 955,267 residents	84% of 852,990 residents	87% of 980,162 residents	93% of 464,409 residents	>95% of 383,903 residents	>95% of 307,883 residents	94% of 509,277 residents	80% of 7,029,917 residents

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Data as of December 12, 2022

Individuals with at least one booster dose administered by county, race, and Hispanic ethnicity (1 of 2)

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

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Barnstable	56% of 531 residents	60% of 2,269 residents	39% of 5,306 residents	49% of 8,142 residents	72% of 4,540 residents	41% of 95 residents	69% of 156,744 residents	1% of 184,753 Barnstable county residents	65% of 184,753 residents
Berkshire	40% of 84 residents	55% of 1,429 residents	47% of 2,639 residents	47% of 4,156 residents	66% of 2,262 residents	*	66% of 84,434 residents	1% of 98,416 Berkshire county residents	63% of 98,416 residents
Bristol	32% of 483 residents	54% of 8,881 residents	44% of 18,726 residents	42% of 33,586 residents	65% of 11,763 residents	36% of 176 residents	59% of 299,063 residents	1% of 387,895 Bristol county residents	55% of 387,895 residents
Dukes	57% of 114 residents	66% of 174 residents	45% of 868 residents	44% of 950 residents	68% of 423 residents	*	69% of 13,687 residents	2% of 17,908 Dukes county residents	62% of 17,908 residents
Essex	36% of 375 residents	62% of 22,279 residents	48% of 21,837 residents	44% of 106,379 residents	70% of 17,757 residents	47% of 211 residents	66% of 433,403 residents	1% of 627,107 Essex county residents	60% of 627,107 residents
Franklin	*	57% of 1,017 residents	50% of 649 residents	51% of 1,874 residents	73% of 1,105 residents	*	69% of 47,417 residents	1% of 54,084 Franklin county residents	66% of 54,084 residents
Hampden	37% of 379 residents	55% of 8,624 residents	50% of 21,855 residents	43% of 61,166 residents	65% of 8,229 residents	45% of 193 residents	63% of 199,405 residents	2% of 318,807 Hampden county residents	56% of 318,807 residents
Hampshire	55% of 101 residents	61% of 5,471 residents	57% of 2,314 residents	57% of 5,516 residents	77% of 2,973 residents	*	72% of 96,867 residents	1% of 118,225 Hampshire county residents	69% of 118,225 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 December 12, 2022

Individuals with at least one booster dose administered by county, race, and Hispanic ethnicity (2 of 2)

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

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Middlesex	41% of 990 residents	66% of 163,070 residents	54% of 61,469 residents	48% of 106,613 residents	76% of 68,277 residents	49% of 497 residents	71% of 899,984 residents	1% of 1,359,971 Middlesex county residents	66% of 1,359,971 residents
Nantucket	*	61% of 210 residents	36% of 986 residents	28% of 1,934 residents	68% of 171 residents	*	63% of 7,664 residents	1% of 11,911 Nantucket county residents	51% of 11,911 residents
Norfolk	40% of 377 residents	68% of 67,607 residents	55% of 38,218 residents	54% of 26,573 residents	75% of 31,641 residents	50% of 230 residents	69% of 411,401 residents	1% of 594,581 Norfolk county residents	67% of 594,581 residents
Plymouth	37% of 306 residents	63% of 5,349 residents	45% of 38,993 residents	47% of 15,813 residents	66% of 16,295 residents	43% of 132 residents	64% of 308,103 residents	1% of 398,073 Plymouth county residents	60% of 398,073 residents
Suffolk	43% of 632 residents	63% of 65,681 residents	55% of 109,497 residents	49% of 133,461 residents	73% of 23,629 residents	49% of 607 residents	67% of 253,360 residents	1% of 618,570 Suffolk county residents	59% of 618,570 residents
Worcester	36% of 552 residents	62% of 33,527 residents	48% of 27,517 residents	44% of 74,893 residents	70% of 20,673 residents	47% of 218 residents	64% of 446,275 residents	1% of 624,991 Worcester county residents	60% of 624,991 residents
Unknown/ Unspecified**	2% of 5,275 AI/AN residents	2% of 399,502 Asian residents	1% of 358,238 Black residents	1% of 593,016 Hispanic residents	1% of 213,410 Multi-race residents	1% of 2,589 NH/PI residents	1% of 3,785,768 White residents	0% of 5,603,095 MA residents	1% of 5,603,095 residents
Massachusetts	40% of 5,275 residents	64% of 399,502 residents	51% of 358,238 residents	46% of 593,016 residents	72% of 213,410 residents	46% of 2,589 residents	66% of 3,785,768 residents	1% of 5,603,095 MA residents	61% of 5,603,095 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 December 12, 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	24%	37%	51%	43%	46%	55%	63%	74%	80%	84%	86%	65%
	of 5,255	of 5,896	of 6,886	of 16,111	of 17,141	of 17,290	of 28,134	of 19,116	of 19,603	of 18,376	of 30,387	of 184,753
	residents	residents	residents	residents	residents	residents						
Berkshire	24%	42%	53%	44%	50%	59%	65%	75%	81%	82%	85%	63%
	of 4,565	of 3,974	of 4,451	of 10,026	of 10,970	of 10,805	of 15,423	of 9,301	of 8,588	of 7,701	of 12,126	of 98,416
	residents	residents	residents	residents	residents	residents						
Bristol	20%	31%	46%	41%	42%	50%	59%	69%	75%	78%	79%	55%
	of 13,906	of 16,965	of 19,312	of 44,793	of 49,382	of 51,483	of 66,092	of 33,816	of 29,149	of 24,086	of 37,388	of 387,895
	residents	residents	residents	residents	residents	residents						
Dukes	24%	47%	56%	36%	45%	56%	68%	79%	82%	85%	94%	62%
	of 739	of 769	of 717	of 1,968	of 2,653	of 2,288	of 2,669	of 1,431	of 1,458	of 1,392	of 1,748	of 17,908
	residents	residents	residents	residents	residents	residents						
Essex	26% of 32,890 residents	41% of 31,013 residents	54% of 32,841 residents	46% of 73,423 residents	51% of 82,678 residents	58% of 81,351 residents	66% of 101,248 residents	74% of 51,942 residents	80% of 44,023 residents	82% of 35,516 residents	83% of 55,757 residents	60% of 627,107 residents
Franklin	29%	48%	52%	48%	56%	64%	68%	75%	82%	89%	86%	66%
	of 2,226	of 2,113	of 2,457	of 5,287	of 6,635	of 6,215	of 8,217	of 5,222	of 5,390	of 4,561	of 5,455	of 54,084
	residents	residents	residents	residents	residents	residents						
Hampden	18%	31%	44%	39%	43%	52%	60%	70%	77%	80%	81%	56%
	of 13,348	of 14,737	of 16,140	of 38,390	of 41,285	of 40,372	of 50,811	of 27,520	of 24,381	of 19,945	of 31,075	of 318,807
	residents	residents	residents	residents	residents	residents						
Hampshire	43%	60%	58%	54%	62%	69%	73%	79%	85%	88%	89%	69%
	of 5,804	of 4,857	of 6,014	of 15,629	of 13,833	of 13,549	of 17,510	of 10,173	of 9,902	of 8,589	of 11,380	of 118,225
	residents	residents	residents	residents	residents	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 December 12, 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	39%	54%	63%	53%	62%	69%	73%	79%	84%	85%	86%	66%
	of 83,914	of 66,710	of 66,003	of 189,797	of 208,370	of 183,125	of 198,401	of 95,342	of 79,643	of 65,378	of 104,696	of 1,359,971
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Nantucket	17%	34%	44%	27%	38%	52%	61%	73%	80%	83%	83%	51%
	of 468	of 490	of 494	of 1,648	of 2,073	of 2,009	of 1,922	of 829	of 713	of 548	of 694	of 11,911
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Norfolk	36%	52%	65%	55%	62%	69%	72%	79%	84%	85%	86%	67%
	of 37,012	of 30,222	of 30,891	of 72,007	of 81,192	of 77,553	of 93,477	of 45,422	of 38,004	of 30,711	of 50,402	of 594,581
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Plymouth	21% of 18,383 residents	36% of 18,911 residents	53% of 21,362 residents	47% of 42,922 residents	49% of 46,993 residents	57% of 50,406 residents	64% of 67,655 residents	73% of 34,511 residents	80% of 30,278 residents	83% of 25,777 residents	84% of 38,655 residents	60% of 398,073 residents
Suffolk	30%	40%	46%	46%	58%	62%	67%	75%	80%	82%	84%	59%
	of 25,410	of 22,677	of 27,101	of 139,229	of 119,734	of 77,462	of 76,957	of 35,446	of 29,638	of 23,403	of 36,278	of 618,570
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Worcester	24% of 30,758 residents	40% of 30,579 residents	54% of 33,342 residents	46% of 76,447 residents	50% of 83,485 residents	58% of 83,151 residents	65% of 102,771 residents	74% of 51,938 residents	81% of 42,999 residents	82% of 34,278 residents	84% of 51,594 residents	60% of 624,991 residents
Unknown/ Unspecified**	0% of 278,838 MA residents 5-11 Years	0% of 252,918 MA residents 12-15 Years	1% of 277,034 MA residents 16-19 Years	3% of 780,085 MA residents 20-29 Years	2% of 800,950 MA residents 30-39 Years	1% of 718,756 MA residents 40-49 Years	1% of 854,836 MA residents 50-59 Years	1% of 433,652 MA residents 60-64 Years	1% of 372,408 MA residents 65-69 Years	1% of 306,876 MA residents 70-74 Years	1% of 479,441 MA residents 75+ Years	1% of 5,603,095 residents
Massachusetts	31%	44%	54%	48%	55%	61%	66%	74%	80%	82%	83%	61%
	of 278,838	of 252,918	of 277,034	of 780,085	of 800,950	of 718,756	of 854,836	of 433,652	of 372,408	of 306,876	of 479,441	of 5,603,095
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	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.