

# **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; March 8, 2023.

<a href="https://covid.cdc.gov/covid-data-tracker">https://covid.cdc.gov/covid-data-tracker</a>

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 March 13, 2023

	Administered (MII	IS)* through Monda	y, March 13, 2023 (	Running totals by d	ay)		
	March 7, 2023	March 8, 2023	March 9, 2023	March 10, 2023	March 11, 2023	March 12, 2023	March 13, 2023
At least one dose number of <b>people</b> who received at least one dose of Moderna, Pfizer, Novavax, or Johnson & Johnson vaccine**	6,541,956	6,542,345	6,542,757	6,543,146	6,543,423	6,543,499	6,543,803
Fully vaccinated number of <b>people</b> who received a primary series of Moderna, Pfizer, Novavax or Johnson & Johnson vaccine***	5,635,026	5,635,344	5,635,639	5,635,924	5,636,053	5,636,102	5,636,278
First booster doses number of <b>people</b> who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine****	3,518,659	3,519,187	3,519,702	3,520,185	3,520,496	3,520,626	3,521,012
Second booster doses number of <b>people</b> who have received at least 2 booster doses*****	1,650,096	1,650,821	1,651,500	1,652,197	1,652,717	1,652,937	1,653,440
Total <b>Doses</b> Administered (MIIS)	17,602,937	17,605,227	17,607,475	17,609,659	17,611,117	17,611,729	17,613,301

<sup>\*</sup>Data from the Massachusetts Immunization Information System (MIIS) are as of midnight the night before.

<sup>\*\*</sup>Now that the majority of Massachusetts residents have received at least one dose of COVID-19 vaccine, changes to this cumulative count may represent data corrections and deduplications.

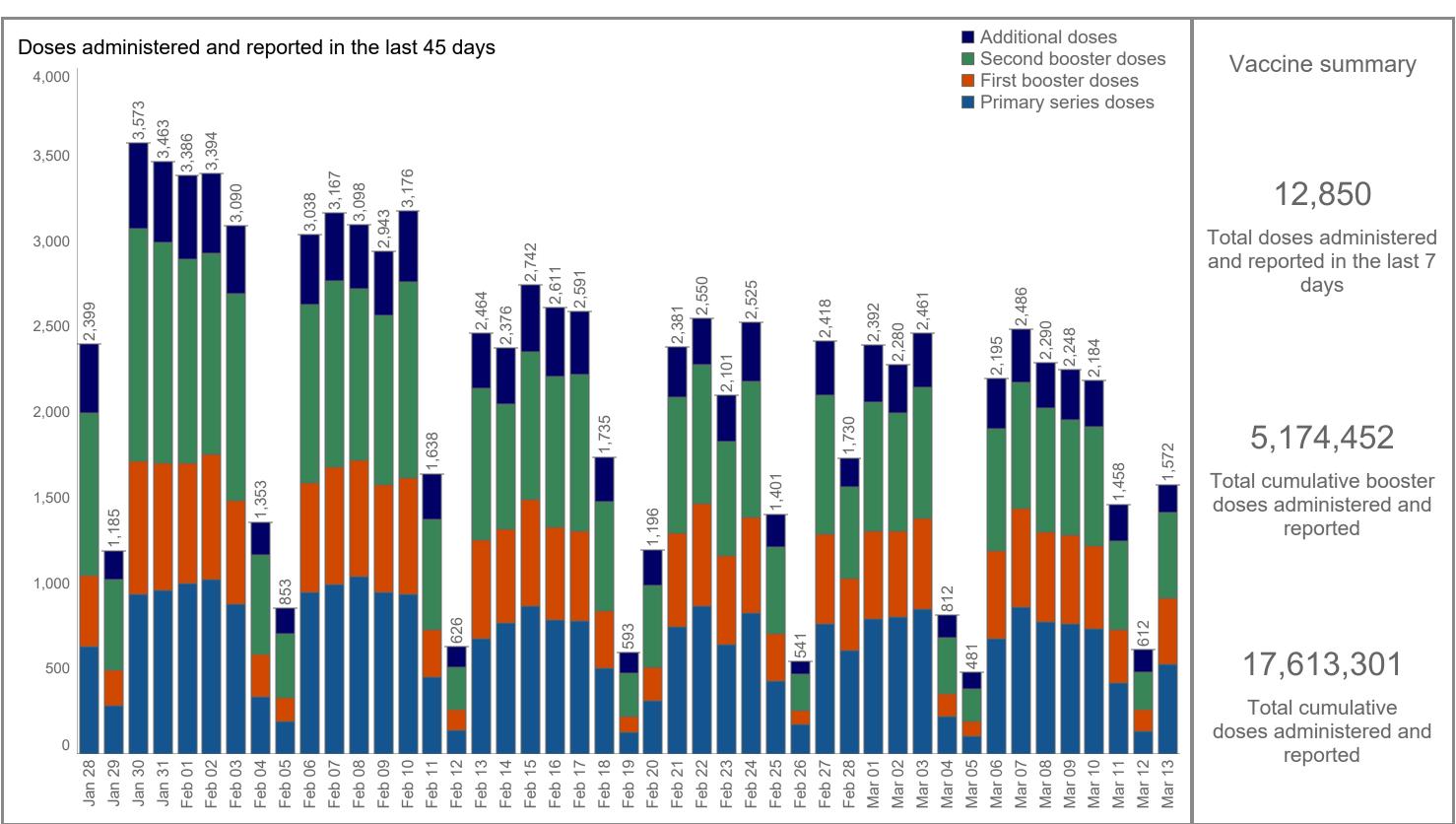
<sup>\*\*\*</sup>An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients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

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

<sup>\*\*\*\*\*</sup>Second booster doses: Number of individuals who have received an additional dose after their first booster dose.

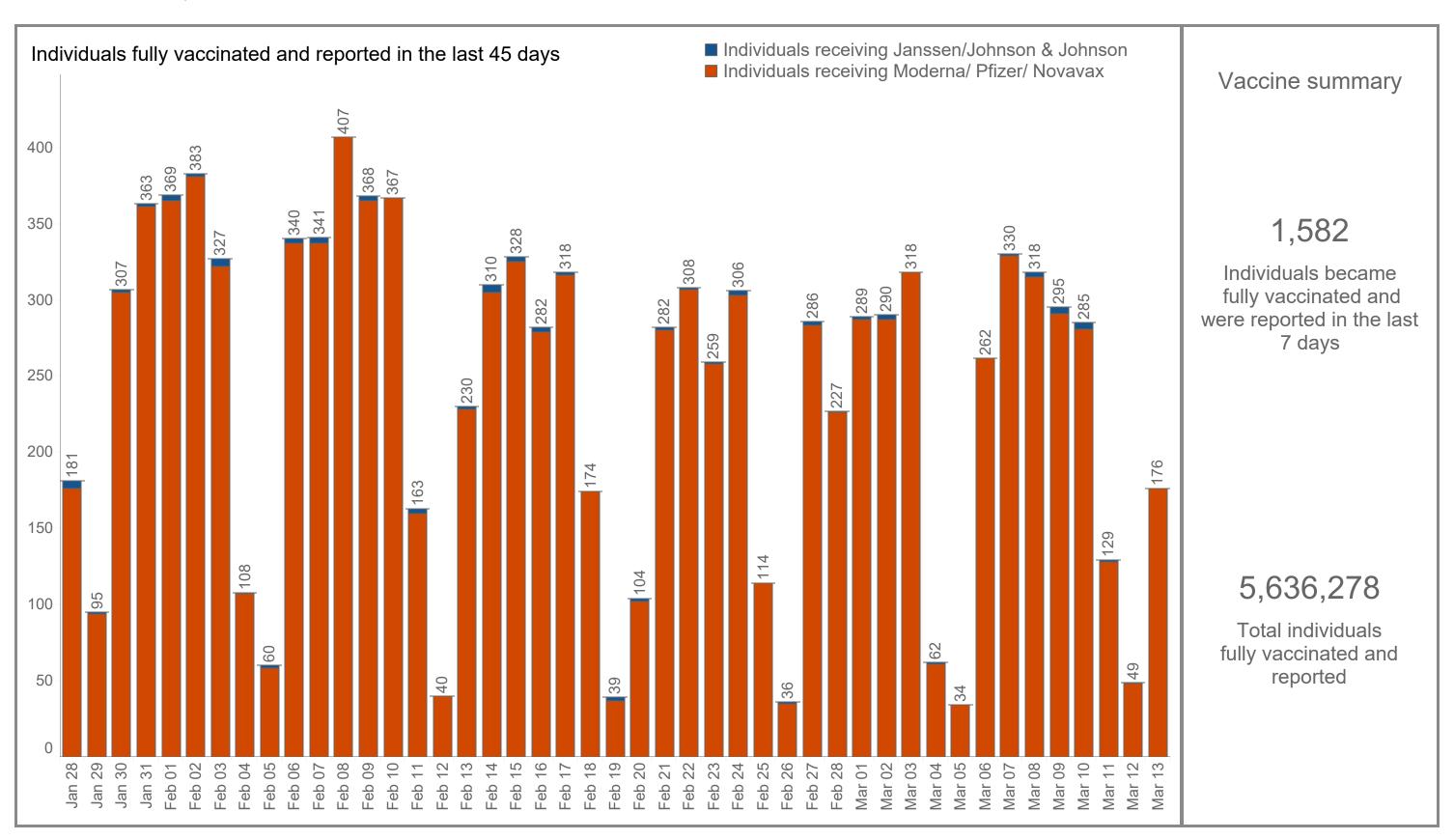
## **COVID-19 Vaccine Doses Administered**

Data as of March 13, 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 March 13, 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.

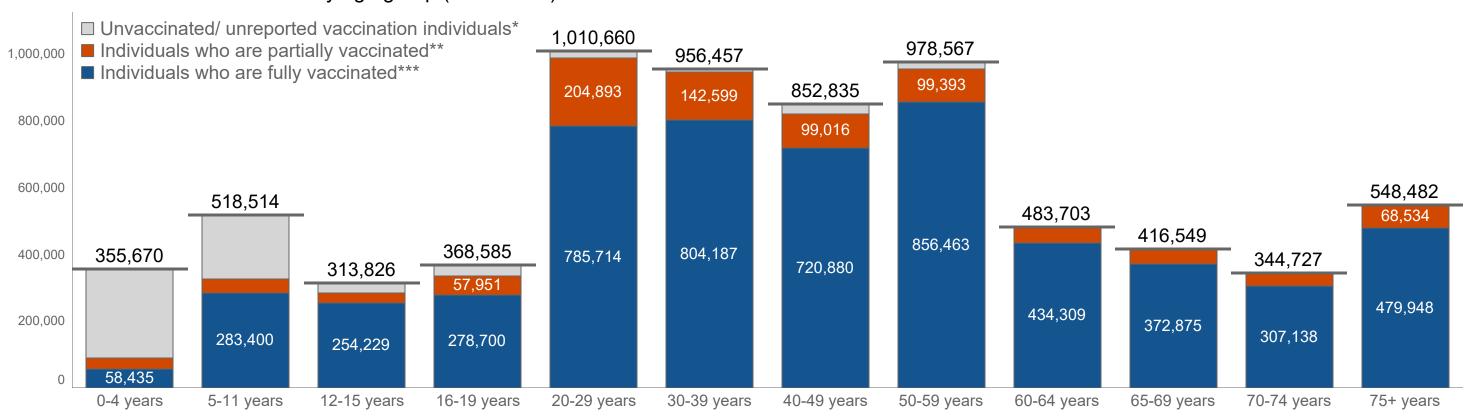
Janssen/Johnson & Johnson recipients require one dose of vaccine.

### Individuals with at Least One Dose

Data as of March 13, 2023

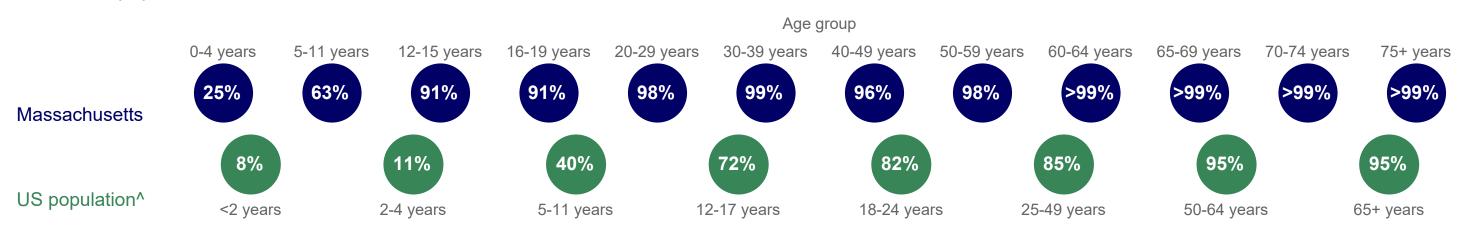
In Massachusetts, 93% of the population has received at least one dose, compared with 81% of the US population.

#### 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.)



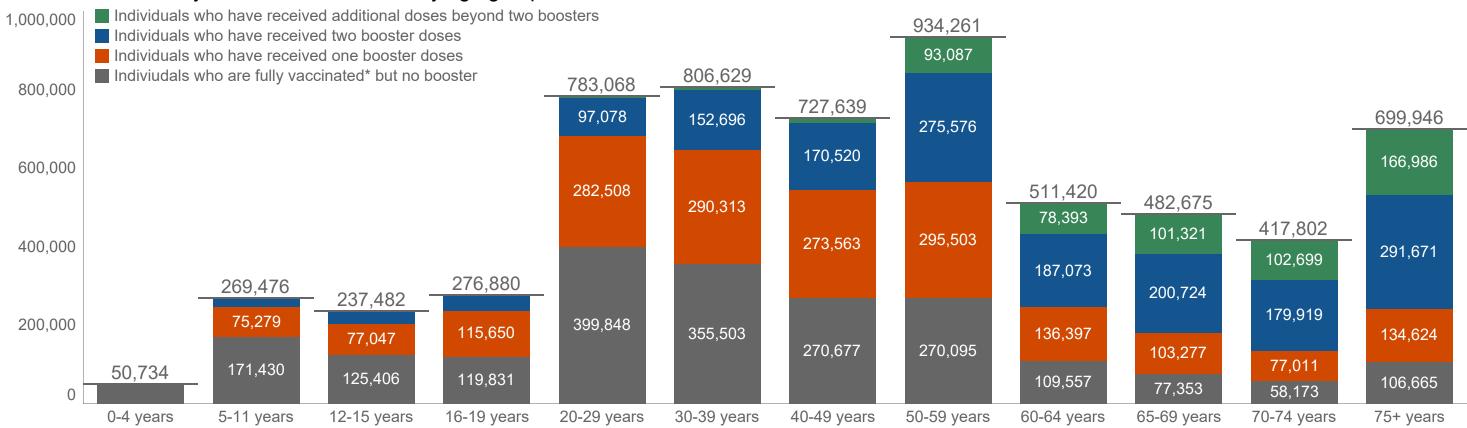
Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories. Now that the majority of Massachusetts residents have received at least one dose of COVID-19 vaccine, changes to this cumulative count may represent data corrections and deduplications.

<sup>\*</sup>Unvaccinated/unreported 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;2023-03-08://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

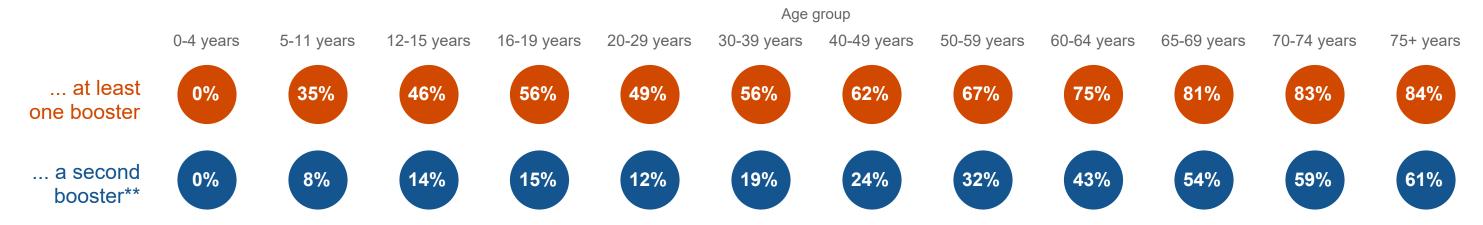
Data as of March 13, 2023

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;2023-03-08. 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 March 13, 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	54% 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	46% of 808 residents	76% of 29,651 residents	79% of 27,604 residents	60% 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	67% of 985 residents	57% of 3,329 residents	36% 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	<b>71%</b> of 12,176 residents	61% of 36,442 residents	<b>52%</b> 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	<b>52%</b> 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

<sup>\*</sup> Vaccination figures with fewer than 30 people are suppressed for privacy.

under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.) Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

<sup>\*\* &</sup>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.

Data as of March 13, 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	74% 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	90% 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	<b>82%</b> of 725,981 residents
Plymouth	34% of 893 residents	68% of 7,962 residents	82% 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	<b>78%</b> 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	52% of 9,939 residents	79% of 510,096 residents	<b>76%</b> 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

<sup>\*</sup> Vaccination figures with fewer than 30 people are suppressed for privacy.

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Data as of March 13, 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%	44%	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%	56%	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	7%	31%	62%	67%	60%	67%	71%	78%	87%	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	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	<b>52%</b> of 64,079 residents	80% of 38,871 residents	79% of 41,764 residents	<b>72%</b> 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	13% of 3,011 residents	47% of 4,819 residents	73% of 2,910 residents	89% of 2,764 residents	70% of 7,572 residents	76% of 8,732 residents	75% of 8,315 residents	80% of 10,333 residents	85% of 6,159 residents	<b>92%</b> of 5,875 residents	>95% of 4,581 residents	91% of 5,954 residents	77% of 71,029 residents
Hampden	4%	36%	64%	63%	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	23%	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

<sup>\*</sup> Vaccination figures with fewer than 30 people are suppressed for privacy.

<sup>\*\* &</sup>quot;Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

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Data as of March 13, 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	27%	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	25%	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	17%	55%	87%	59%	80%	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%	46%	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%	54%	80%	75%	78%	84%	85%	87%	94%	>95%	>95%	94%	80%
	of 356,875	of 521,112	of 316,296	of 371,285	of 1,010,451	of 955,267	of 852,990	of 980,162	of 464,409	of 383,903	of 307,883	of 509,277	of 7,029,917
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents

<sup>\*</sup> Vaccination figures with fewer than 30 people are suppressed for privacy.

<sup>\*\* &</sup>quot;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 March 13, 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 2,274 residents	40% of 5,334 residents	50% of 8,240 residents	73% of 4,718 residents	41% of 93 residents	70% of 157,441 residents	1% of 185,607 Barnstable county residents	66% of 185,607 residents
Berkshire	43% of 83 residents	55% of 1,434 residents	48% of 2,662 residents	49% of 4,155 residents	67% of 2,335 residents	*	67% of 84,694 residents	1% of 98,694 Berkshire county residents	64% of 98,694 residents
Bristol	34% of 473 residents	56% of 8,910 residents	46% of 18,978 residents	44% of 34,186 residents	66% of 12,209 residents	36% of 178 residents	60% of 300,374 residents	1% of 390,172 Bristol county residents	56% of 390,172 residents
Dukes	61% of 112 residents	66% of 174 residents	46% of 876 residents	45% of 961 residents	70% of 433 residents	*	70% of 13,734 residents	2% of 17,973 Dukes county residents	63% of 17,973 residents
Essex	36% of 375 residents	64% of 22,451 residents	50% of 21,834 residents	45% of 108,506 residents	72% of 18,149 residents	47% of 208 residents	67% of 434,636 residents	1% of 630,483 Essex county residents	61% of 630,483 residents
Franklin	48% of 63 residents	59% of 1,028 residents	52% of 655 residents	54% of 1,908 residents	75% of 1,147 residents	*	70% of 47,704 residents	1% of 54,383 Franklin county residents	68% of 54,383 residents
Hampden	39% of 373 residents	56% of 8,682 residents	51% of 22,167 residents	45% of 62,273 residents	67% of 8,506 residents	46% of 185 residents	63% of 200,153 residents	2% of 320,823 Hampden county residents	57% of 320,823 residents
Hampshire	59% of 98 residents	62% of 5,534 residents	58% of 2,325 residents	59% of 5,597 residents	79% of 3,049 residents	*	74% of 97,292 residents	1% of 118,814 Hampshire county residents	<b>71%</b> of 118,814 residents

<sup>\*</sup> Vaccination figures with fewer than 30 people are suppressed for privacy.

<sup>\*\* &</sup>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 March 13, 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 164,998 residents	56% of 61,987 residents	50% of 108,160 residents	77% of 69,810 residents	49% of 495 residents	72% of 904,374 residents	1% of 1,369,172 Middlesex county residents	67% of 1,369,172 residents
Nantucket	*	62% of 207 residents	36% of 990 residents	29% of 1,947 residents	69% of 179 residents	*	64% of 7,683 residents	1% of 11,943 Nantucket county residents	52% of 11,943 residents
Norfolk	40% of 362 residents	69% of 68,312 residents	57% of 38,464 residents	56% of 26,890 residents	77% of 32,289 residents	52% of 230 residents	71% of 413,093 residents	1% of 597,940 Norfolk county residents	68% of 597,940 residents
Plymouth	37% of 301 residents	64% of 5,376 residents	46% of 39,372 residents	48% of 16,001 residents	67% of 16,664 residents	47% of 134 residents	65% of 309,255 residents	1% of 400,037 Plymouth county residents	61% of 400,037 residents
Suffolk	43% of 631 residents	64% of 66,254 residents	57% of 110,288 residents	51% of 134,962 residents	75% of 24,135 residents	49% of 597 residents	68% of 254,828 residents	1% of 623,049 Suffolk county residents	60% of 623,049 residents
Worcester	36% of 539 residents	64% of 33,897 residents	50% of 27,860 residents	46% of 75,873 residents	72% of 21,233 residents	46% of 213 residents	65% of 448,227 residents	1% of 628,674 Worcester county residents	61% of 628,674 residents
Unknown/ Unspecified**	2% of 5,215 AI/AN residents	2% of 403,604 Asian residents	1% of 361,233 Black residents	1% of 601,745 Hispanic residents	1% of 218,629 Multi-race residents	1% of 2,561 NH/PI residents	1% of 3,801,952 White residents	0% of 5,636,278 MA residents	1% of 5,636,278 residents
Massachusetts	41% of 5,215 residents	65% of 403,604 residents	53% of 361,233 residents	48% of 601,745 residents	<b>74%</b> of 218,629 residents	47% of 2,561 residents	67% of 3,801,952 residents	<b>1%</b> of 5,636,278 MA residents	62% of 5,636,278 residents

<sup>\*</sup> 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.

<sup>\*\* &</sup>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 March 13, 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	29%	39%	53%	44%	47%	56%	64%	75%	82%	85%	87%	66%
	of 5,323	of 5,908	of 6,909	of 16,197	of 17,194	of 17,378	of 28,256	of 19,200	of 19,660	of 18,404	of 30,444	of 185,607
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Berkshire	28%	43%	55%	45%	51%	60%	66%	76%	82%	83%	86%	64%
	of 4,613	of 3,994	of 4,487	of 10,047	of 10,998	of 10,817	of 15,446	of 9,298	of 8,577	of 7,698	of 12,106	of 98,694
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Bristol	24% of 14,203 residents	32% of 17,070 residents	48% of 19,465 residents	42% of 45,100 residents	<b>44%</b> of 49,659 residents	51% of 51,724 residents	60% of 66,283 residents	70% of 33,874 residents	77% of 29,214 residents	79% of 24,110 residents	80% of 37,471 residents	56% of 390,172 residents
Dukes	31%	49%	58%	37%	46%	57%	68%	80%	82%	85%	94%	63%
	of 753	of 772	of 722	of 1,978	of 2,660	of 2,290	of 2,673	of 1,433	of 1,462	of 1,390	of 1,753	of 17,973
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Essex	30% of 33,400 residents	43% of 31,154 residents	56% of 33,020 residents	47% of 73,842 residents	52% of 82,991 residents	59% of 81,563 residents	66% of 101,459 residents	75% of 52,017 residents	81% of 44,086 residents	<b>82%</b> of 35,555 residents	84% of 55,909 residents	61% of 630,483 residents
Franklin	35%	50%	54%	49%	57%	66%	70%	77%	83%	90%	88%	68%
	of 2,284	of 2,138	of 2,469	of 5,334	of 6,663	of 6,239	of 8,245	of 5,223	of 5,388	of 4,569	of 5,448	of 54,383
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Hampden	22%	34%	45%	40%	45%	53%	62%	71%	78%	81%	81%	57%
	of 13,685	of 14,852	of 16,279	of 38,713	of 41,549	of 40,597	of 50,957	of 27,586	of 24,412	of 19,975	of 31,126	of 320,823
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Hampshire	49% of 5,868 residents	63% of 4,873 residents	60% of 6,067 residents	55% of 15,720 residents	63% of 13,928 residents	70% of 13,591 residents	73% of 17,518 residents	80% of 10,183 residents	85% of 9,903 residents	89% of 8,586 residents	90% of 11,358 residents	<b>71%</b> of 118,814 residents

<sup>\*</sup> Vaccination figures with less than 30 people are suppressed for privacy.

<sup>\*\* &</sup>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 March 13, 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	44%	57%	65%	54%	63%	70%	74%	80%	85%	86%	87%	67%
	of 85,059	of 67,014	of 66,303	of 191,589	of 209,213	of 183,704	of 198,683	of 95,459	of 79,710	of 65,441	of 104,731	of 1,369,172
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Nantucket	20%	36%	46%	28%	38%	52%	61%	73%	80%	84%	83%	52%
	of 474	of 491	of 494	of 1,654	of 2,076	of 2,011	of 1,924	of 827	of 714	of 545	of 696	of 11,943
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Norfolk	41%	54%	66%	56%	63%	70%	73%	80%	85%	86%	87%	68%
	of 37,508	of 30,382	of 31,001	of 72,506	of 81,472	of 77,720	of 93,527	of 45,409	of 37,994	of 30,690	of 50,400	of 597,940
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Plymouth	25%	38%	54%	48%	50%	58%	65%	74%	81%	83%	85%	61%
	of 18,688	of 19,007	of 21,473	of 43,150	of 47,225	of 50,518	of 67,788	of 34,560	of 30,290	of 25,804	of 38,713	of 400,037
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Suffolk	36%	44%	48%	48%	59%	63%	68%	76%	81%	83%	85%	60%
	of 26,065	of 22,782	of 27,307	of 140,205	of 120,052	of 77,613	of 77,126	of 35,527	of 29,710	of 23,448	of 36,350	of 623,049
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents
Worcester	28% of 31,266 residents	42% of 30,759 residents	56% of 33,513 residents	47% of 77,037 residents	<b>51%</b> of 83,989 residents	59% of 83,447 residents	66% of 103,012 residents	75% of 52,024 residents	82% of 43,058 residents	83% of 34,313 residents	85% of 51,628 residents	61% of 628,674 residents
Unknown/ Unspecified**	0% of 283,400 MA residents 5-11 Years	0% of 254,229 MA residents 12-15 Years	1% of 278,700 MA residents 16-19 Years	3% of 785,714 MA residents 20-29 Years	2% of 804,187 MA residents 30-39 Years	1% of 720,880 MA residents 40-49 Years	1% of 856,463 MA residents 50-59 Years	1% of 434,309 MA residents 60-64 Years	1% of 372,875 MA residents 65-69 Years	1% of 307,138 MA residents 70-74 Years	1% of 479,948 MA residents 75+ Years	1% of 5,636,278 residents
Massachusetts	35%	46%	56%	49%	56%	62%	67%	75%	81%	83%	84%	62%
	of 283,400	of 254,229	of 278,700	of 785,714	of 804,187	of 720,880	of 856,463	of 434,309	of 372,875	of 307,138	of 479,948	of 5,636,278
	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents	residents

<sup>\*</sup> Vaccination figures with less than 30 people are suppressed for privacy.

<sup>\*\* &</sup>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, <a href="https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions">https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions</a> 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: <a href="https://www.mass.gov/info-details/covid-19-vaccinations-for-individuals-with-certain-medical-conditions">https://www.mass.gov/info-details/covid-19-vaccinations-for-individuals-with-certain-medical-conditions</a>

**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.