



# 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; May 10, 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 third for the percent of the population with a completed primary series among US states.

Massachusetts currently ranks third for the percent of the population ages 5 years and older who have received a bivalent booster dose among US states.



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.

# Individuals who Received COVID-19 Vaccines

Data as of September 11, 2023

Cumulative number and percent\* of people vaccinated and doses administered, comparing previous week's reports to this week's report

	Three weeks ago: cumulative through August 21, 2023	Two weeks ago: cumulative through August 28, 2023	Last week: cumulative through September 4, 2023	This week: cumulative through September 11, 2023
At least one dose -- number of <b>people</b> who received at least one dose of any COVID-19 vaccine**	6,786,602 97%	6,786,608 97%	6,786,810 97%	6,785,979 97%
Primary series complete -- number of <b>people</b> who received a primary series of vaccine	5,963,468 85%	5,964,913 85%	5,966,134 85%	5,967,353 85%
Boosted -- number of <b>people</b> who received a dose of Moderna or Pfizer booster vaccine since 9/1/2022***	2,116,224 30%	2,120,452 30%	2,123,901 30%	2,127,168 30%
Total <b>doses</b> administered	19,300,918	19,307,198	19,312,888	19,317,827

\*Percentages are based on the number of people recorded in MIIS divided by the estimated state population from the UMass Donahue Institute. See source information below.

\*\*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.

\*\*\*After 9/1/2022 nearly all booster doses were the bivalent formulation of Moderna or Pfizer COVID-19 vaccine.

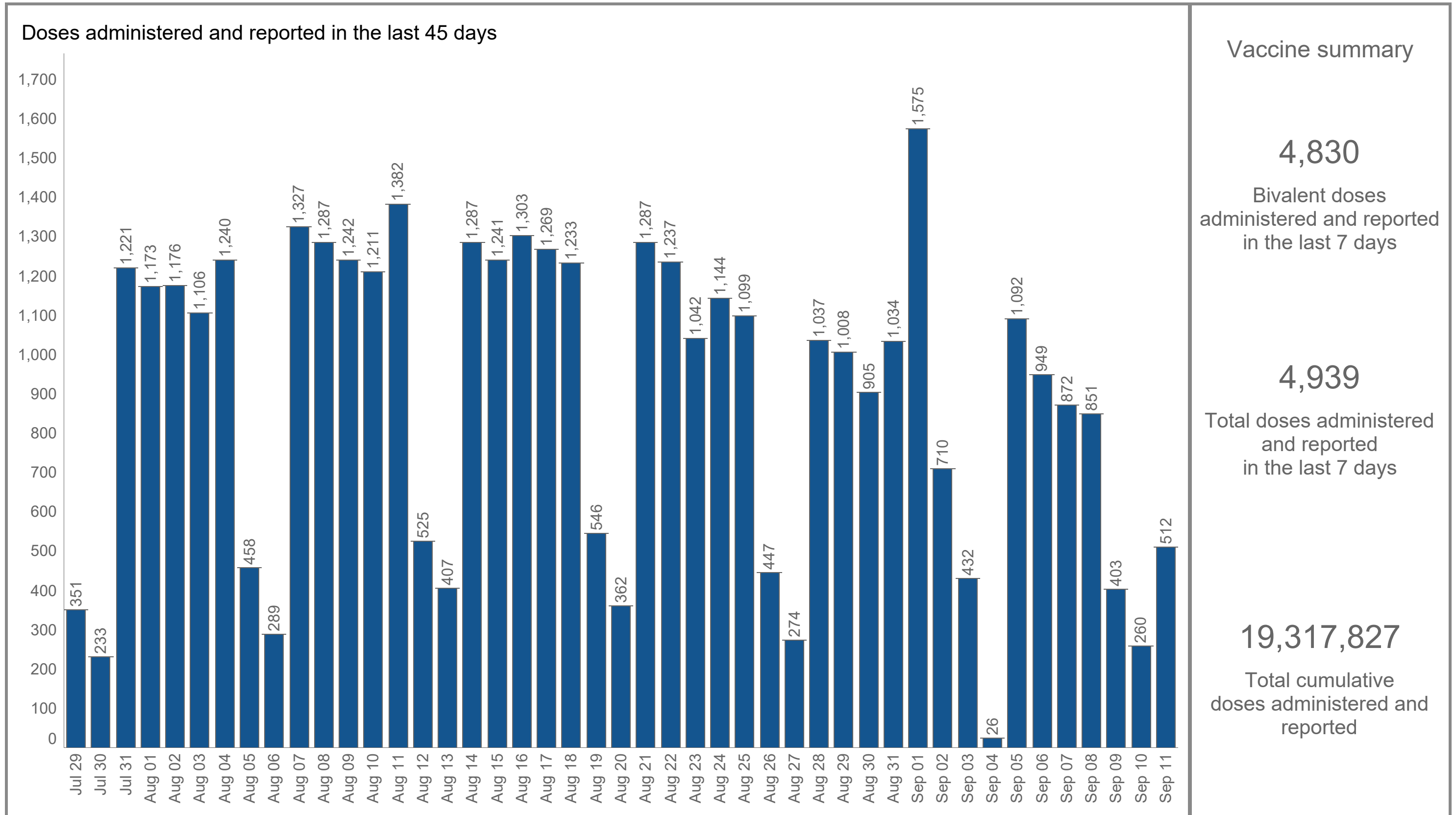
See the definitions page at the end of this document for the full definitions of the terms used on this page.

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

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.

# COVID-19 Vaccine Doses Administered

Data as of September 11, 2023



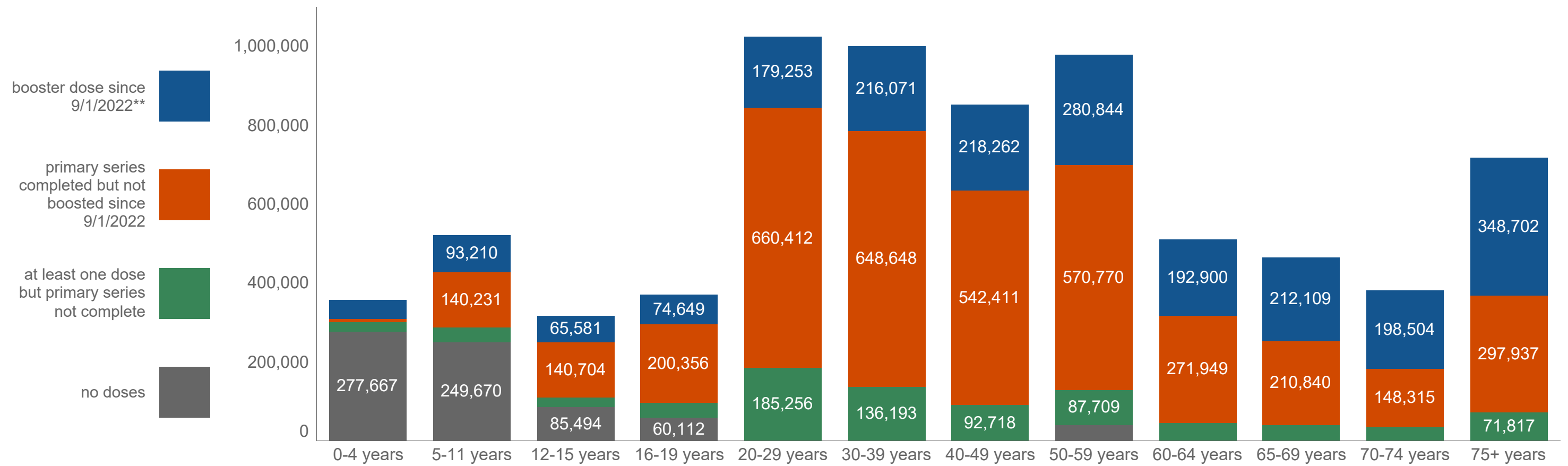
Data reflect the date doses were reported as having been administered. See definitions page at the end of this document for additional information. Source: Data from the Massachusetts Immunization Information System (MIIS) are as of midnight the night before.

# Immunization Status by Age Group

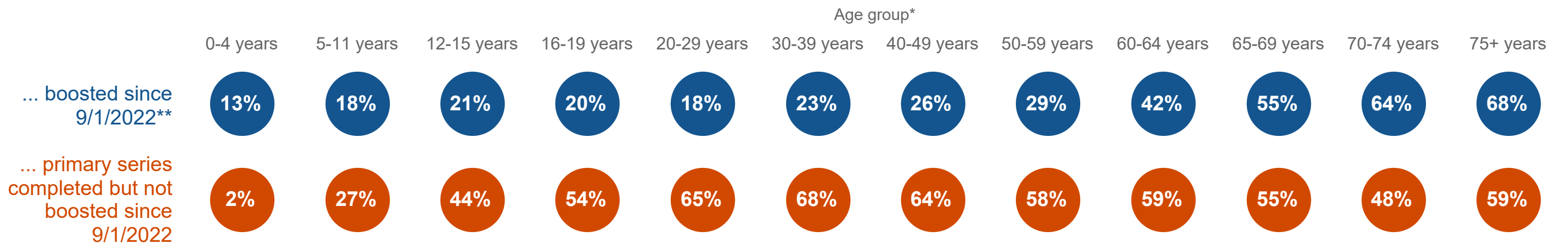
Data as of September 11, 2023

In Massachusetts, 30% of residents have been boosted since 9/1/2022\*\*, compared with 17% of the US population.

## Booster status of individuals vaccinated in MA by age group\*



## Percent of the Massachusetts population...



\*Population estimates are used to estimate the unvaccinated population by subtracting those vaccinated from the population estimate. Immunization status is reported by the age of the individual at the time of data extraction. Individuals who reach boosted status at a younger age enter older age categories over time. The number of people vaccinated in older age groups may be larger than the population estimates for those age groups. Immunization status is determined by the number and formulation of vaccine doses reported to MIIS on the individual's record.

\*\*After 9/1/2022 nearly all booster doses were the bivalent formulation of Moderna or Pfizer COVID-19 vaccine.

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) 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.) (3) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2023-05-10. <https://covid.cdc.gov/covid-data-tracker>

# Individuals with Primary Series Complete, but not Boosted since 9/1/2022

Data as of September 11, 2023

## Individuals with primary series complete but not boosted by county, race, and Hispanic ethnicity (1 of 2)

Number of people in the county and race/ethnicity group who have completed a primary series but not received a booster dose since 9/1/2022\*\*\* 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	34% of 1,171 residents	52% of 3,230 residents	69% of 6,644 residents	83% of 7,637 residents	22% of 12,144 residents	>95% of 53 residents	46% of 198,117 residents	3% of 228,996 Barnstable county residents	50% of 228,996 residents
Berkshire	41% of 153 residents	55% of 1,978 residents	52% of 4,132 residents	50% of 6,619 residents	24% of 5,666 residents	*	47% of 110,470 residents	2% of 129,026 Berkshire county residents	49% of 129,026 residents
Bristol	41% of 1,045 residents	53% of 13,752 residents	65% of 24,506 residents	56% of 53,995 residents	26% of 32,048 residents	>95% of 148 residents	49% of 453,707 residents	2% of 579,200 Bristol county residents	52% of 579,200 residents
Dukes	34% of 219 residents	68% of 181 residents	83% of 809 residents	>95% of 452 residents	13% of 1,899 residents	*	47% of 17,031 residents	8% of 20,600 Dukes county residents	57% of 20,600 residents
Essex	38% of 808 residents	52% of 29,651 residents	62% of 27,604 residents	51% of 181,759 residents	41% of 26,257 residents	>95% of 155 residents	51% of 543,595 residents	3% of 809,829 Essex county residents	54% of 809,829 residents
Franklin	37% of 122 residents	55% of 1,215 residents	49% of 985 residents	41% of 3,329 residents	17% of 3,207 residents	*	43% of 62,163 residents	3% of 71,029 Franklin county residents	45% of 71,029 residents
Hampden	47% of 646 residents	57% of 12,176 residents	46% of 36,442 residents	42% of 120,694 residents	36% of 15,087 residents	95% of 165 residents	49% of 280,615 residents	4% of 465,825 Hampden county residents	50% of 465,825 residents
Hampshire	36% of 199 residents	33% of 10,709 residents	36% of 4,398 residents	36% of 11,248 residents	21% of 6,930 residents	>95% of 43 residents	40% of 128,781 residents	2% of 162,308 Hampshire county residents	41% of 162,308 residents

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

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

\*\*\*After 9/1/2022 nearly all booster doses were the bivalent formulation of Moderna or Pfizer COVID-19 vaccine.

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# Individuals with Primary Series Complete, but not Boosted since 9/1/2022

Data as of September 11, 2023

## Individuals with primary series complete but not boosted by county, race, and Hispanic ethnicity (2 of 2)

Number of people in the county and race/ethnicity group who have completed a primary series but not received a booster dose since 9/1/2022\*\*\* 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	50% of 1,511 residents	49% of 212,123 residents	56% of 84,324 residents	61% of 141,738 residents	45% of 81,692 residents	>95% of 380 residents	46% of 1,110,235 residents	3% of 1,632,002 Middlesex county residents	51% of 1,632,002 residents
Nantucket	*	56% of 274 residents	92% of 1,025 residents	89% of 2,175 residents	18% of 615 residents	*	53% of 10,149 residents	6% of 14,255 Nantucket county residents	66% of 14,255 residents
Norfolk	40% of 736 residents	50% of 88,772 residents	58% of 50,563 residents	54% of 37,460 residents	61% of 29,540 residents	>95% of 151 residents	47% of 518,759 residents	2% of 725,981 Norfolk county residents	51% of 725,981 residents
Plymouth	29% of 893 residents	49% of 7,962 residents	68% of 48,249 residents	56% of 23,417 residents	32% of 35,840 residents	48% of 220 residents	51% of 414,238 residents	2% of 530,819 Plymouth county residents	53% of 530,819 residents
Suffolk	40% of 1,235 residents	58% of 81,295 residents	57% of 142,086 residents	58% of 177,973 residents	37% of 37,543 residents	>95% of 357 residents	43% of 357,446 residents	4% of 797,936 Suffolk county residents	54% of 797,936 residents
Worcester	37% of 1,183 residents	52% of 46,778 residents	49% of 45,164 residents	58% of 110,448 residents	35% of 37,582 residents	>95% of 145 residents	48% of 620,810 residents	2% of 862,111 Worcester county residents	51% 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	8% of 1,841 NH/PI residents	3% of 4,826,116 White residents	1% of 7,029,917 MA residents	3% of 7,029,917 residents
Massachusetts	43% of 9,939 residents	54% of 510,096 residents	59% of 476,930 residents	56% of 878,944 residents	39% of 326,050 residents	>95% of 1,841 residents	50% of 4,826,116 residents	3% of 7,029,917 MA residents	55% of 7,029,917 residents

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# Individuals with Primary Series Complete, but not Boosted since 9/1/2022

Data as of September 11, 2023

## Individuals with primary series complete but not boosted by county and age group (1 of 2)

Number of people in the county and age group who have completed a primary series but not received a booster dose since 9/1/2022\*\*\* 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
<b>Barnstable</b>	1% of 8,117 residents	22% of 12,225 residents	39% of 7,999 residents	57% of 8,444 residents	67% of 22,109 residents	71% of 20,313 residents	64% of 21,363 residents	51% of 34,083 residents	50% of 21,351 residents	42% of 21,806 residents	36% of 19,831 residents	51% of 31,352 residents	50% of 228,996 residents
<b>Berkshire</b>	1% of 5,429 residents	31% of 8,296 residents	45% of 5,380 residents	50% of 6,484 residents	58% of 15,369 residents	63% of 13,757 residents	59% of 13,736 residents	50% of 19,125 residents	50% of 10,525 residents	45% of 9,518 residents	39% of 8,017 residents	49% of 13,390 residents	49% of 129,026 residents
<b>Bristol</b>	1% of 30,091 residents	18% of 45,540 residents	38% of 27,527 residents	53% of 29,121 residents	56% of 74,766 residents	60% of 73,958 residents	60% of 73,224 residents	59% of 85,414 residents	62% of 39,125 residents	60% of 31,728 residents	53% of 25,741 residents	64% of 42,964 residents	52% of 579,200 residents
<b>Dukes</b>	*	28% of 1,267 residents	50% of 785 residents	78% of 653 residents	84% of 2,070 residents	95% of 2,359 residents	76% of 2,432 residents	56% of 3,147 residents	47% of 1,702 residents	36% of 1,801 residents	33% of 1,574 residents	44% of 1,929 residents	57% of 20,600 residents
<b>Essex</b>	2% of 44,345 residents	27% of 64,079 residents	46% of 38,871 residents	59% of 41,764 residents	64% of 102,396 residents	66% of 101,407 residents	63% of 99,259 residents	58% of 118,474 residents	59% of 56,226 residents	56% of 46,143 residents	49% of 36,776 residents	60% of 60,087 residents	54% of 809,829 residents
<b>Franklin</b>	1% of 3,011 residents	23% of 4,819 residents	41% of 2,910 residents	59% of 2,764 residents	58% of 7,572 residents	55% of 8,732 residents	52% of 8,315 residents	46% of 10,333 residents	42% of 6,159 residents	38% of 5,875 residents	37% of 4,581 residents	51% of 5,954 residents	45% of 71,029 residents
<b>Hampden</b>	1% of 24,918 residents	20% of 38,042 residents	38% of 23,128 residents	47% of 26,022 residents	53% of 65,472 residents	60% of 59,405 residents	62% of 53,671 residents	57% of 62,992 residents	58% of 31,187 residents	57% of 25,936 residents	52% of 20,519 residents	63% of 34,534 residents	50% of 465,825 residents
<b>Hampshire</b>	2% of 5,278 residents	26% of 8,930 residents	36% of 5,934 residents	19% of 16,019 residents	37% of 33,434 residents	60% of 16,604 residents	53% of 16,047 residents	48% of 20,206 residents	47% of 10,664 residents	41% of 9,895 residents	39% of 7,914 residents	53% of 11,383 residents	41% of 162,308 residents

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# Individuals with Primary Series Complete, but not Boosted since 9/1/2022

Data as of September 11, 2023

## Individuals with primary series complete but not boosted by county and age group (2 of 2)

Number of people in the county and age group who have completed a primary series but not received a booster dose since 9/1/2022\*\*\* 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	4% of 83,667 residents	31% of 121,734 residents	47% of 73,083 residents	53% of 82,715 residents	60% of 242,436 residents	63% of 242,118 residents	59% of 206,995 residents	54% of 222,367 residents	53% of 100,804 residents	50% of 81,083 residents	43% of 64,640 residents	53% of 110,359 residents	51% of 1,632,002 residents
Nantucket	*	27% of 1,012 residents	56% of 562 residents	78% of 507 residents	86% of 1,722 residents	85% of 2,214 residents	84% of 2,184 residents	74% of 2,082 residents	61% of 945 residents	57% of 764 residents	53% of 562 residents	48% of 847 residents	66% of 14,255 residents
Norfolk	3% of 37,515 residents	31% of 56,630 residents	45% of 35,180 residents	57% of 36,428 residents	66% of 90,767 residents	63% of 95,497 residents	57% of 93,243 residents	54% of 105,961 residents	54% of 48,444 residents	50% of 39,164 residents	42% of 31,323 residents	50% of 55,829 residents	51% of 725,981 residents
Plymouth	1% of 27,514 residents	24% of 42,518 residents	42% of 26,597 residents	60% of 27,177 residents	66% of 61,517 residents	63% of 61,280 residents	61% of 65,393 residents	59% of 81,528 residents	60% of 38,334 residents	55% of 31,886 residents	48% of 26,374 residents	62% of 40,701 residents	53% of 530,819 residents
Suffolk	2% of 40,171 residents	25% of 47,420 residents	46% of 26,325 residents	37% of 46,527 residents	61% of 176,345 residents	69% of 145,860 residents	67% of 88,768 residents	58% of 87,549 residents	55% of 40,123 residents	54% of 32,272 residents	49% of 24,580 residents	54% of 41,995 residents	54% of 797,936 residents
Worcester	1% of 45,082 residents	25% of 68,600 residents	42% of 42,016 residents	53% of 46,659 residents	59% of 114,476 residents	62% of 111,763 residents	59% of 108,360 residents	56% of 126,900 residents	56% of 58,820 residents	54% of 46,033 residents	48% of 35,450 residents	56% of 57,952 residents	51% 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	3% 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	3% of 980,162 MA residents 50-59 Years	3% of 464,409 MA residents 60-64 Years	3% of 383,903 MA residents 65-69 Years	2% of 307,883 MA residents 70-74 Years	3% of 509,277 MA residents 75+ Years	3% of 7,029,917 residents
Massachusetts	2% of 356,875 residents	27% of 521,112 residents	44% of 316,296 residents	54% of 371,285 residents	65% of 1,010,451 residents	68% of 955,267 residents	64% of 852,990 residents	58% of 980,162 residents	59% of 464,409 residents	55% of 383,903 residents	48% of 307,883 residents	59% of 509,277 residents	55% of 7,029,917 residents

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# Individuals Boosted since 9/1/2022

Data as of September 11, 2023

## Individuals boosted since 9/1/2022 by county, race, and Hispanic ethnicity (1 of 2)

Number of people in the county and race/ethnicity group who have received a booster dose since 9/1/2022 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	13% of 1,171 residents	21% of 3,230 residents	15% of 6,644 residents	30% of 7,637 residents	19% of 12,144 residents	*	36% of 198,117 residents	0% of 228,996 Barnstable county residents	34% of 228,996 residents
Berkshire	*	21% of 1,978 residents	14% of 4,132 residents	18% of 6,619 residents	18% of 5,666 residents	*	31% of 110,470 residents	1% of 129,026 Berkshire county residents	30% of 129,026 residents
Bristol	8% of 1,045 residents	17% of 13,752 residents	18% of 24,506 residents	13% of 53,995 residents	15% of 32,048 residents	*	21% of 453,707 residents	0% of 579,200 Bristol county residents	20% of 579,200 residents
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Essex	10% of 808 residents	26% of 29,651 residents	20% of 27,604 residents	13% of 181,759 residents	30% of 26,257 residents	25% of 155 residents	31% of 543,595 residents	0% of 809,829 Essex county residents	27% of 809,829 residents
Franklin	*	33% of 1,215 residents	20% of 985 residents	20% of 3,329 residents	20% of 3,207 residents	*	36% of 62,163 residents	1% of 71,029 Franklin county residents	35% of 71,029 residents
Hampden	10% of 646 residents	16% of 12,176 residents	17% of 36,442 residents	12% of 120,694 residents	23% of 15,087 residents	22% of 165 residents	25% of 280,615 residents	1% of 465,825 Hampden county residents	21% of 465,825 residents
Hampshire	*	21% of 10,709 residents	19% of 4,398 residents	18% of 11,248 residents	25% of 6,930 residents	*	37% of 128,781 residents	1% of 162,308 Hampshire county residents	35% of 162,308 residents

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# Individuals Boosted since 9/1/2022

Data as of September 11, 2023

## Individuals boosted since 9/1/2022 by county, race, and Hispanic ethnicity (2 of 2)

Number of people in the county and race/ethnicity group who have received a booster dose since 9/1/2022 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	20% of 1,511 residents	32% of 212,123 residents	22% of 84,324 residents	21% of 141,738 residents	44% of 81,692 residents	33% of 380 residents	38% of 1,110,235 residents	1% of 1,632,002 Middlesex county residents	36% of 1,632,002 residents
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Norfolk	10% of 736 residents	30% of 88,772 residents	22% of 50,563 residents	23% of 37,460 residents	54% of 29,540 residents	38% of 151 residents	35% of 518,759 residents	1% of 725,981 Norfolk county residents	34% of 725,981 residents
Plymouth	7% of 893 residents	20% of 7,962 residents	17% of 48,249 residents	16% of 23,417 residents	17% of 35,840 residents	15% of 220 residents	26% of 414,238 residents	0% of 530,819 Plymouth county residents	24% of 530,819 residents
Suffolk	14% of 1,235 residents	29% of 81,295 residents	24% of 142,086 residents	21% of 177,973 residents	31% of 37,543 residents	41% of 357 residents	31% of 357,446 residents	1% of 797,936 Suffolk county residents	28% of 797,936 residents
Worcester	8% of 1,183 residents	24% of 46,778 residents	16% of 45,164 residents	15% of 110,448 residents	25% of 37,582 residents	39% of 145 residents	27% of 620,810 residents	0% of 862,111 Worcester county residents	25% of 862,111 residents
Unknown/ Unspecified**	1% of 9,939 AI/AN residents	1% of 510,096 Asian residents	1% of 476,930 Black residents	0% of 878,944 Hispanic residents	1% of 326,050 Multi-race residents	3% of 1,841 NH/PI residents	1% of 4,826,116 White residents	0% of 7,029,917 MA residents	1% of 7,029,917 residents
Massachusetts	13% of 9,939 residents	30% of 510,096 residents	21% of 476,930 residents	17% of 878,944 residents	32% of 326,050 residents	33% of 1,841 residents	32% of 4,826,116 residents	1% of 7,029,917 MA residents	30% of 7,029,917 residents

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

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

\*\*\*After 9/1/2022 nearly all booster doses were the bivalent formulation of Moderna or Pfizer COVID-19 vaccine.

See the definitions page at the end of this document for the full definitions of the terms used on this page.

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.

# Individuals Boosted since 9/1/2022

Data as of September 11, 2023

## Individuals boosted since 9/1/2022 by county and age group (1 of 2)

Number of people in the county and age group who have received a booster dose since 9/1/2022 divided by the estimated 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
<b>Barnstable</b>	12% of 12,225 residents	15% of 7,999 residents	17% of 8,444 residents	11% of 22,109 residents	15% of 20,313 residents	18% of 21,363 residents	23% of 34,083 residents	37% of 21,351 residents	51% of 21,806 residents	63% of 19,831 residents	78% of 31,352 residents	34% of 228,996 residents
<b>Berkshire</b>	13% of 8,296 residents	14% of 5,380 residents	15% of 6,484 residents	11% of 15,369 residents	17% of 13,757 residents	21% of 13,736 residents	24% of 19,125 residents	38% of 10,525 residents	51% of 9,518 residents	63% of 8,017 residents	70% of 13,390 residents	30% of 129,026 residents
<b>Bristol</b>	8% of 45,540 residents	10% of 27,527 residents	12% of 29,121 residents	9% of 74,766 residents	11% of 73,958 residents	14% of 73,224 residents	19% of 85,414 residents	32% of 39,125 residents	45% of 31,728 residents	51% of 25,741 residents	54% of 42,964 residents	20% of 579,200 residents
<b>Dukes</b>	20% of 1,267 residents	29% of 785 residents	38% of 653 residents	15% of 2,070 residents	20% of 2,359 residents	24% of 2,432 residents	29% of 3,147 residents	41% of 1,702 residents	49% of 1,801 residents	65% of 1,574 residents	87% of 1,929 residents	36% of 20,600 residents
<b>Essex</b>	14% of 64,079 residents	18% of 38,871 residents	19% of 41,764 residents	13% of 102,396 residents	17% of 101,407 residents	21% of 99,259 residents	25% of 118,474 residents	39% of 56,226 residents	52% of 46,143 residents	59% of 36,776 residents	64% of 60,087 residents	27% of 809,829 residents
<b>Franklin</b>	15% of 4,819 residents	23% of 2,910 residents	26% of 2,764 residents	16% of 7,572 residents	21% of 8,732 residents	27% of 8,315 residents	29% of 10,333 residents	40% of 6,159 residents	54% of 5,875 residents	75% of 4,581 residents	79% of 5,954 residents	35% of 71,029 residents
<b>Hampden</b>	8% of 38,042 residents	12% of 23,128 residents	12% of 26,022 residents	9% of 65,472 residents	12% of 59,405 residents	16% of 53,671 residents	21% of 62,992 residents	33% of 31,187 residents	46% of 25,936 residents	56% of 20,519 residents	56% of 34,534 residents	21% of 465,825 residents
<b>Hampshire</b>	27% of 8,930 residents	31% of 5,934 residents	12% of 16,019 residents	14% of 33,434 residents	27% of 16,604 residents	34% of 16,047 residents	35% of 20,206 residents	49% of 10,664 residents	63% of 9,895 residents	80% of 7,914 residents	85% of 11,383 residents	35% of 162,308 residents

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

# Individuals Boosted since 9/1/2022

Data as of September 11, 2023

## Individuals boosted since 9/1/2022 by county and age group (2 of 2)

Number of people in the county and age group who have received a booster dose since 9/1/2022 divided by the estimated 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	27% of 121,734 residents	30% of 73,083 residents	28% of 82,715 residents	22% of 242,436 residents	29% of 242,118 residents	35% of 206,995 residents	36% of 222,367 residents	48% of 100,804 residents	61% of 81,083 residents	69% of 64,640 residents	72% of 110,359 residents	36% of 1,632,002 residents
Nantucket	9% of 1,012 residents	16% of 562 residents	15% of 507 residents	7% of 1,722 residents	9% of 2,214 residents	13% of 2,184 residents	22% of 2,082 residents	33% of 945 residents	50% of 764 residents	66% of 562 residents	67% of 847 residents	21% of 14,255 residents
Norfolk	24% of 56,630 residents	27% of 35,180 residents	29% of 36,428 residents	20% of 90,767 residents	25% of 95,497 residents	29% of 93,243 residents	33% of 105,961 residents	46% of 48,444 residents	60% of 39,164 residents	67% of 31,323 residents	68% of 55,829 residents	34% of 725,981 residents
Plymouth	11% of 42,518 residents	13% of 26,597 residents	15% of 27,177 residents	11% of 61,517 residents	13% of 61,280 residents	16% of 65,393 residents	22% of 81,528 residents	34% of 38,334 residents	49% of 31,886 residents	59% of 26,374 residents	67% of 40,701 residents	24% of 530,819 residents
Suffolk	22% of 47,420 residents	25% of 26,325 residents	15% of 46,527 residents	17% of 176,345 residents	27% of 145,860 residents	30% of 88,768 residents	31% of 87,549 residents	41% of 40,123 residents	51% of 32,272 residents	60% of 24,580 residents	61% of 41,995 residents	28% of 797,936 residents
Worcester	12% of 68,600 residents	15% of 42,016 residents	16% of 46,659 residents	13% of 114,476 residents	16% of 111,763 residents	19% of 108,360 residents	25% of 126,900 residents	38% of 58,820 residents	53% of 46,033 residents	61% of 35,450 residents	64% of 57,952 residents	25% of 862,111 residents
Unknown/ Unspecified**	0% of 521,112 MA residents 5-11 Years	0% of 316,296 MA residents 12-15 Years	1% of 371,285 MA residents 16-19 Years	2% of 1,010,451 MA residents 20-29 Years	1% of 955,267 MA residents 30-39 Years	1% of 852,990 MA residents 40-49 Years	1% of 980,162 MA residents 50-59 Years	1% of 464,409 MA residents 60-64 Years	1% 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	1% of 7,029,917 residents
Massachusetts	18% of 521,112 residents	21% of 316,296 residents	20% of 371,285 residents	18% of 1,010,451 residents	23% of 955,267 residents	26% of 852,990 residents	29% of 980,162 residents	42% of 464,409 residents	55% of 383,903 residents	64% of 307,883 residents	68% of 509,277 residents	30% of 7,029,917 residents

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

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\*\*\*After 9/1/2022 nearly all booster doses were the bivalent formulation of Moderna or Pfizer COVID-19 vaccine.

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## Critical definitions

**Please note:** the following terms and definition apply to COVID-19 only. Updated 4/5/2023

**Doses administered:** All doses of COVID-19 vaccine that have been reported to MIIS are included in this measurement. This includes doses reported by RICAIR, the Rhode Island immunization registry, and the Veterans Administration for individuals with Massachusetts addresses.

**At least one dose:** An individual is counted as having at least one dose if they have a COVID-19 vaccine on record.

**Primary series complete:** An individual is counted as having primary series complete if they meet the CDC guidelines (see <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.html>), which are based on age and vaccine formulation.

**Boosted after 9/1/2022:** An individual is counted as boosted if they received a booster dose of vaccine after 9/1/2022. (For a small number of children, this included monovalent boosters for a series of weeks.) Updated guidance replaces previous guidance for individuals to receive multiple boosters based on age or medical condition.

**No doses:** This is an estimate based on subtracting the number of people who received at least one dose from the population estimate the specified population. It is possible for individuals to have received vaccine without it being reported to MIIS.

**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 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.

For more information on COVID-19 vaccines, visit the CDC's website at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.html>