



# 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 July 24, 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 July 3, 2023	Two weeks ago: cumulative through July 10, 2023	Last week: cumulative through July 17, 2023	This week: cumulative through July 24, 2023
At least one dose -- number of <b>people</b> who received at least one dose of any COVID-19 vaccine**	6,790,604 97%	6,790,277 97%	6,785,618 97%	6,785,764 97%
Primary series complete -- number of <b>people</b> who received a primary series of vaccine	5,956,122 85%	5,956,528 85%	5,957,152 85%	5,958,023 85%
Boosted -- number of <b>people</b> who received a dose of Moderna or Pfizer booster vaccine since 9/1/2022***	2,090,998 30%	2,093,636 30%	2,097,340 30%	2,100,722 30%
Total <b>doses</b> administered	19,237,911	19,243,440	19,249,846	19,255,756

\*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.

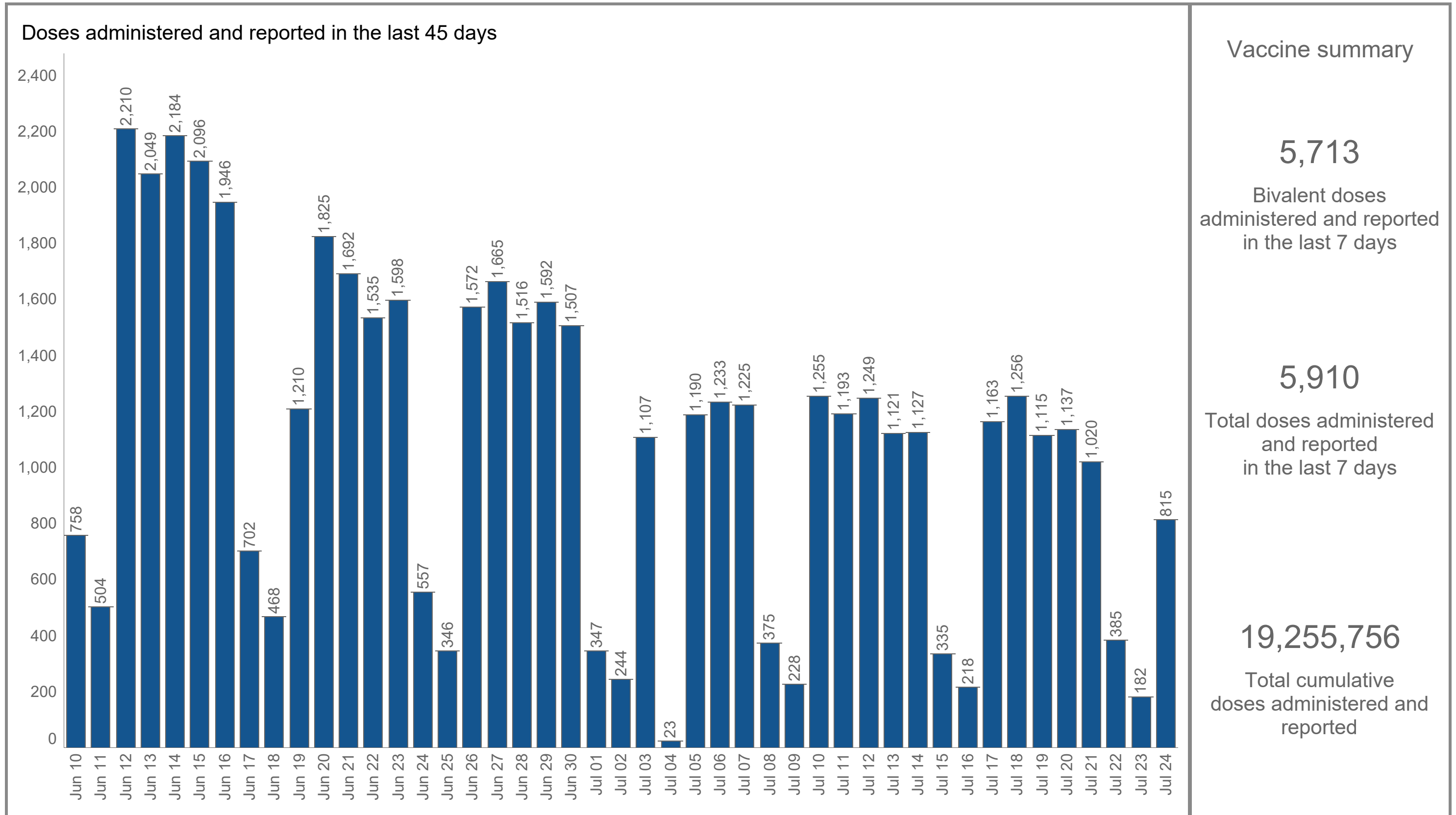
See the definitions page at the end of this document for the full definitions of the terms used on this page.

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 July 24, 2023



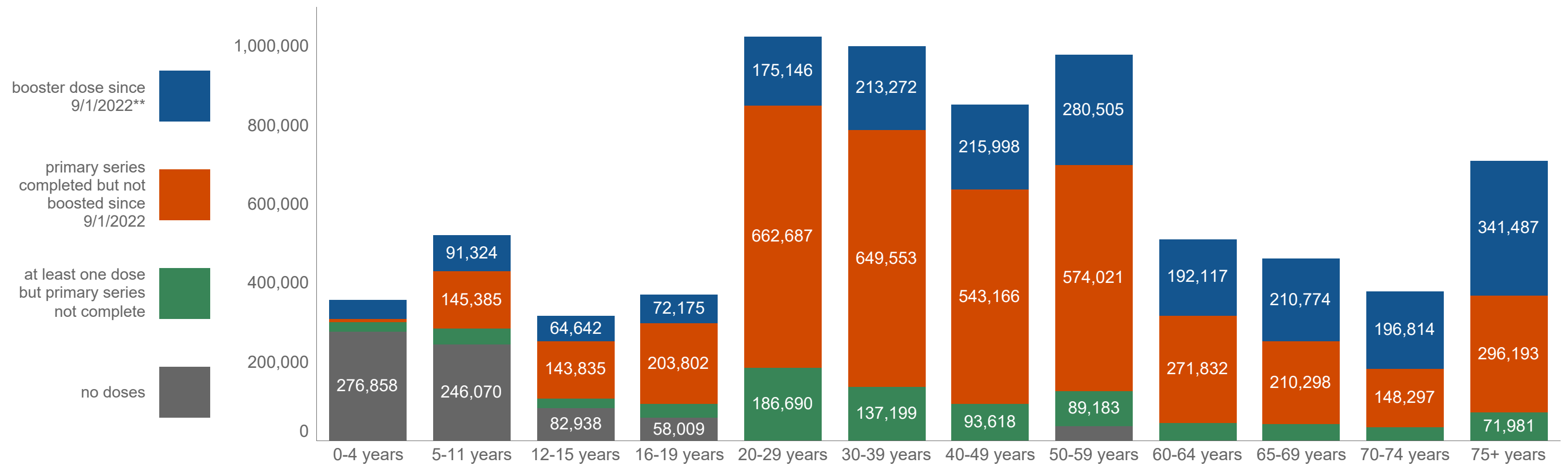
Data reflect the date doses were reported as having been administered. See definitions page at the end of this document for additional information. Source: Data from the Massachusetts Immunization Information System (MIIS) are as of midnight the night before.

# Immunization Status by Age Group

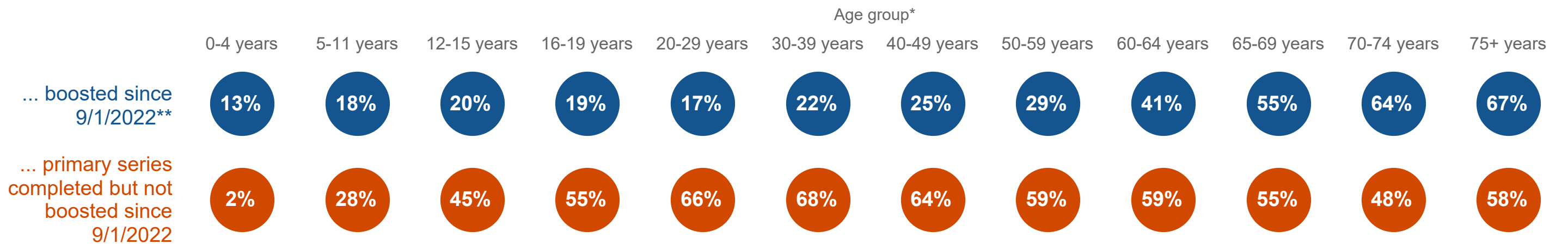
Data as of July 24, 2023

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 July 24, 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	53% of 3,230 residents	69% of 6,644 residents	83% of 7,637 residents	22% of 12,144 residents	>95% of 53 residents	47% 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	3% of 579,200 Bristol county residents	52% of 579,200 residents
Dukes	34% of 219 residents	69% of 181 residents	83% of 809 residents	>95% of 452 residents	13% of 1,899 residents	*	48% of 17,031 residents	8% of 20,600 Dukes county residents	57% of 20,600 residents
Essex	39% 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	38% of 122 residents	55% of 1,215 residents	49% of 985 residents	41% of 3,329 residents	17% of 3,207 residents	*	44% of 62,163 residents	3% of 71,029 Franklin county residents	45% of 71,029 residents
Hampden	48% of 646 residents	58% 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	37% of 4,398 residents	36% of 11,248 residents	21% of 6,930 residents	>95% of 43 residents	41% of 128,781 residents	3% 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 July 24, 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	51% of 1,511 residents	50% 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	52% of 1,632,002 residents
Nantucket	*	56% of 274 residents	91% 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	41% of 736 residents	50% of 88,772 residents	59% 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	52% of 725,981 residents
Plymouth	29% of 893 residents	50% of 7,962 residents	69% 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	54% 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	55% of 797,936 residents
Worcester	38% 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 July 24, 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	23% of 12,225 residents	41% of 7,999 residents	58% of 8,444 residents	67% of 22,109 residents	71% of 20,313 residents	64% of 21,363 residents	52% of 34,083 residents	50% of 21,351 residents	42% of 21,806 residents	36% of 19,831 residents	50% 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	51% 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	44% of 9,518 residents	39% of 8,017 residents	48% of 13,390 residents	49% of 129,026 residents
<b>Bristol</b>	1% of 30,091 residents	19% of 45,540 residents	39% of 27,527 residents	54% of 29,121 residents	56% of 74,766 residents	60% of 73,958 residents	60% of 73,224 residents	59% of 85,414 residents	61% of 39,125 residents	59% of 31,728 residents	53% of 25,741 residents	64% of 42,964 residents	52% of 579,200 residents
<b>Dukes</b>	*	29% of 1,267 residents	52% of 785 residents	80% of 653 residents	85% of 2,070 residents	94% of 2,359 residents	77% of 2,432 residents	56% of 3,147 residents	47% of 1,702 residents	35% 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	28% of 64,079 residents	47% of 38,871 residents	60% of 41,764 residents	64% of 102,396 residents	66% of 101,407 residents	63% of 99,259 residents	58% of 118,474 residents	58% of 56,226 residents	55% of 46,143 residents	49% of 36,776 residents	59% of 60,087 residents	54% of 809,829 residents
<b>Franklin</b>	1% of 3,011 residents	24% 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	47% of 10,333 residents	43% 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	39% of 23,128 residents	48% of 26,022 residents	53% of 65,472 residents	60% of 59,405 residents	62% of 53,671 residents	58% 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	27% of 8,930 residents	37% of 5,934 residents	20% of 16,019 residents	38% of 33,434 residents	61% of 16,604 residents	54% of 16,047 residents	49% of 20,206 residents	47% of 10,664 residents	42% 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 July 24, 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	33% of 121,734 residents	48% of 73,083 residents	54% of 82,715 residents	61% 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	52% of 1,632,002 residents
Nantucket	*	27% of 1,012 residents	58% of 562 residents	80% of 507 residents	87% of 1,722 residents	85% of 2,214 residents	84% of 2,184 residents	73% of 2,082 residents	61% of 945 residents	56% of 764 residents	53% of 562 residents	48% of 847 residents	66% of 14,255 residents
Norfolk	3% of 37,515 residents	32% of 56,630 residents	45% of 35,180 residents	58% 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	52% of 725,981 residents
Plymouth	1% of 27,514 residents	24% of 42,518 residents	43% of 26,597 residents	60% of 27,177 residents	66% of 61,517 residents	63% of 61,280 residents	61% of 65,393 residents	60% of 81,528 residents	60% of 38,334 residents	55% of 31,886 residents	48% of 26,374 residents	61% of 40,701 residents	54% of 530,819 residents
Suffolk	2% of 40,171 residents	26% of 47,420 residents	47% 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	53% of 32,272 residents	49% of 24,580 residents	53% of 41,995 residents	55% of 797,936 residents
Worcester	1% of 45,082 residents	26% of 68,600 residents	43% of 42,016 residents	54% 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	47% of 35,450 residents	55% 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	28% of 521,112 residents	45% of 316,296 residents	55% of 371,285 residents	66% of 1,010,451 residents	68% of 955,267 residents	64% of 852,990 residents	59% of 980,162 residents	59% of 464,409 residents	55% of 383,903 residents	48% of 307,883 residents	58% of 509,277 residents	55% of 7,029,917 residents

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# Individuals Boosted since 9/1/2022

Data as of July 24, 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	20% of 3,230 residents	15% of 6,644 residents	30% of 7,637 residents	18% of 12,144 residents	*	35% 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	17% of 6,619 residents	18% of 5,666 residents	*	31% of 110,470 residents	1% of 129,026 Berkshire county residents	29% of 129,026 residents
Bristol	8% of 1,045 residents	17% of 13,752 residents	17% 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
Dukes	17% of 219 residents	34% of 181 residents	31% of 809 residents	41% of 452 residents	11% of 1,899 residents	*	37% of 17,031 residents	1% of 20,600 Dukes county residents	35% of 20,600 residents
Essex	10% of 808 residents	26% of 29,651 residents	19% of 27,604 residents	12% 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	26% of 809,829 residents
Franklin	*	33% of 1,215 residents	20% of 985 residents	20% of 3,329 residents	20% of 3,207 residents	*	35% of 62,163 residents	1% of 71,029 Franklin county residents	34% of 71,029 residents
Hampden	10% of 646 residents	16% of 12,176 residents	17% of 36,442 residents	12% of 120,694 residents	22% of 15,087 residents	23% of 165 residents	24% of 280,615 residents	1% of 465,825 Hampden county residents	21% of 465,825 residents
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# Individuals Boosted since 9/1/2022

Data as of July 24, 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	34% 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	21% of 50,563 residents	23% of 37,460 residents	53% of 29,540 residents	37% 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	16% of 48,249 residents	15% 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	15% of 1,235 residents	28% of 81,295 residents	23% of 142,086 residents	21% of 177,973 residents	30% 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	9% of 1,183 residents	24% of 46,778 residents	15% of 45,164 residents	15% of 110,448 residents	24% of 37,582 residents	34% 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	0% 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	20% of 476,930 residents	17% of 878,944 residents	31% of 326,050 residents	32% 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 July 24, 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	14% of 20,313 residents	18% of 21,363 residents	23% of 34,083 residents	38% of 21,351 residents	51% of 21,806 residents	63% of 19,831 residents	77% 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	62% of 8,017 residents	68% of 13,390 residents	29% 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	52% of 42,964 residents	20% of 579,200 residents
<b>Dukes</b>	20% of 1,267 residents	28% of 785 residents	36% 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	85% of 1,929 residents	35% 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	63% of 60,087 residents	26% of 809,829 residents
<b>Franklin</b>	15% of 4,819 residents	23% of 2,910 residents	25% of 2,764 residents	16% of 7,572 residents	21% of 8,732 residents	26% of 8,315 residents	29% of 10,333 residents	40% of 6,159 residents	54% of 5,875 residents	75% of 4,581 residents	77% of 5,954 residents	34% of 71,029 residents
<b>Hampden</b>	8% of 38,042 residents	11% of 23,128 residents	11% 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	55% of 34,534 residents	21% of 465,825 residents
<b>Hampshire</b>	26% of 8,930 residents	31% of 5,934 residents	12% of 16,019 residents	13% 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	79% of 7,914 residents	83% of 11,383 residents	34% 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 July 24, 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	29% of 73,083 residents	27% of 82,715 residents	21% of 242,436 residents	29% of 242,118 residents	34% of 206,995 residents	36% of 222,367 residents	48% of 100,804 residents	61% of 81,083 residents	69% of 64,640 residents	71% of 110,359 residents	36% of 1,632,002 residents
Nantucket	9% of 1,012 residents	16% of 562 residents	13% of 507 residents	7% of 1,722 residents	9% of 2,214 residents	13% of 2,184 residents	22% of 2,082 residents	32% of 945 residents	50% of 764 residents	64% of 562 residents	66% of 847 residents	21% of 14,255 residents
Norfolk	24% of 56,630 residents	26% of 35,180 residents	27% of 36,428 residents	19% of 90,767 residents	24% of 95,497 residents	29% of 93,243 residents	33% of 105,961 residents	46% of 48,444 residents	59% of 39,164 residents	66% of 31,323 residents	67% of 55,829 residents	34% of 725,981 residents
Plymouth	11% of 42,518 residents	13% of 26,597 residents	14% 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	65% of 40,701 residents	24% of 530,819 residents
Suffolk	21% of 47,420 residents	24% of 26,325 residents	14% of 46,527 residents	17% of 176,345 residents	27% of 145,860 residents	29% of 88,768 residents	31% of 87,549 residents	41% of 40,123 residents	50% of 32,272 residents	60% of 24,580 residents	59% 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	12% of 114,476 residents	15% of 111,763 residents	19% of 108,360 residents	25% of 126,900 residents	38% of 58,820 residents	52% of 46,033 residents	61% of 35,450 residents	63% 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	20% of 316,296 residents	19% of 371,285 residents	17% of 1,010,451 residents	22% of 955,267 residents	25% of 852,990 residents	29% of 980,162 residents	41% of 464,409 residents	55% of 383,903 residents	64% of 307,883 residents	67% 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>