



# Weekly COVID-19 Vaccination Report

The Weekly COVID-19 Vaccination Report includes the most currently available information on vaccines shipped and administered, as well as more granular information by geography, demographic factors, and more. This report will be posted each Thursday.

## 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; July 6, 2022.  
<https://covid.cdc.gov/covid-data-tracker>

Massachusetts currently ranks tied for first among US states for the rate of persons with one or more doses administered per capita.

Massachusetts currently ranks first for the rate of persons with one or more doses per capita among states with populations of five million people or more.



Please note: This report reflects data available in the Massachusetts Immunization Information System (MIIS) as of Monday at 11:59PM and is pulled every Tuesday. Due to provider reporting of administration data and data processing, data may be available in MIIS 24-48 hours or more after administration. Due to time needed for inputting shipment data, shipment data may be available in MIIS 24-48 hours or more after shipment. MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and may be subject to change in future publications as additional data are reported. All data are from MIIS unless otherwise noted.

# COVID-19 Vaccines Administered

Data as of July 11, 2022

Administered (MIIS)* through Monday, July 11, 2022 (Running totals by day)							
	July 5, 2022	July 6, 2022	July 7, 2022	July 8, 2022	July 9, 2022	July 10, 2022	July 11, 2022
At least one dose -- number of <b>people</b> who received at least one dose of Moderna, Pfizer, or Johnson & Johnson vaccine	6,263,446	6,265,748	6,268,463	6,270,602	6,272,086	6,272,648	6,273,947
Fully vaccinated -- number of <b>people</b> who received a primary series of Moderna, Pfizer, or Johnson & Johnson vaccine**	5,409,890	5,410,434	5,411,010	5,411,633	5,411,980	5,412,177	5,412,504
Booster doses -- number of <b>people</b> who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,127,184	3,128,661	3,130,172	3,131,771	3,132,541	3,133,019	3,133,949
Second booster doses -- number of <b>people</b> who have received at least 2 booster doses****	587,617	589,747	591,941	594,414	595,747	596,602	597,809
<b>Total Doses Administered (MIIS)</b>	15,049,544	15,056,025	15,063,059	15,069,923	15,073,866	15,075,974	15,079,749

\*Data from the Massachusetts Immunization Information System (MIIS) are as of midnight the night before. As of 11/4/2021, MIIS numbers include vaccinations reported from the Veterans Administration for MA residents.

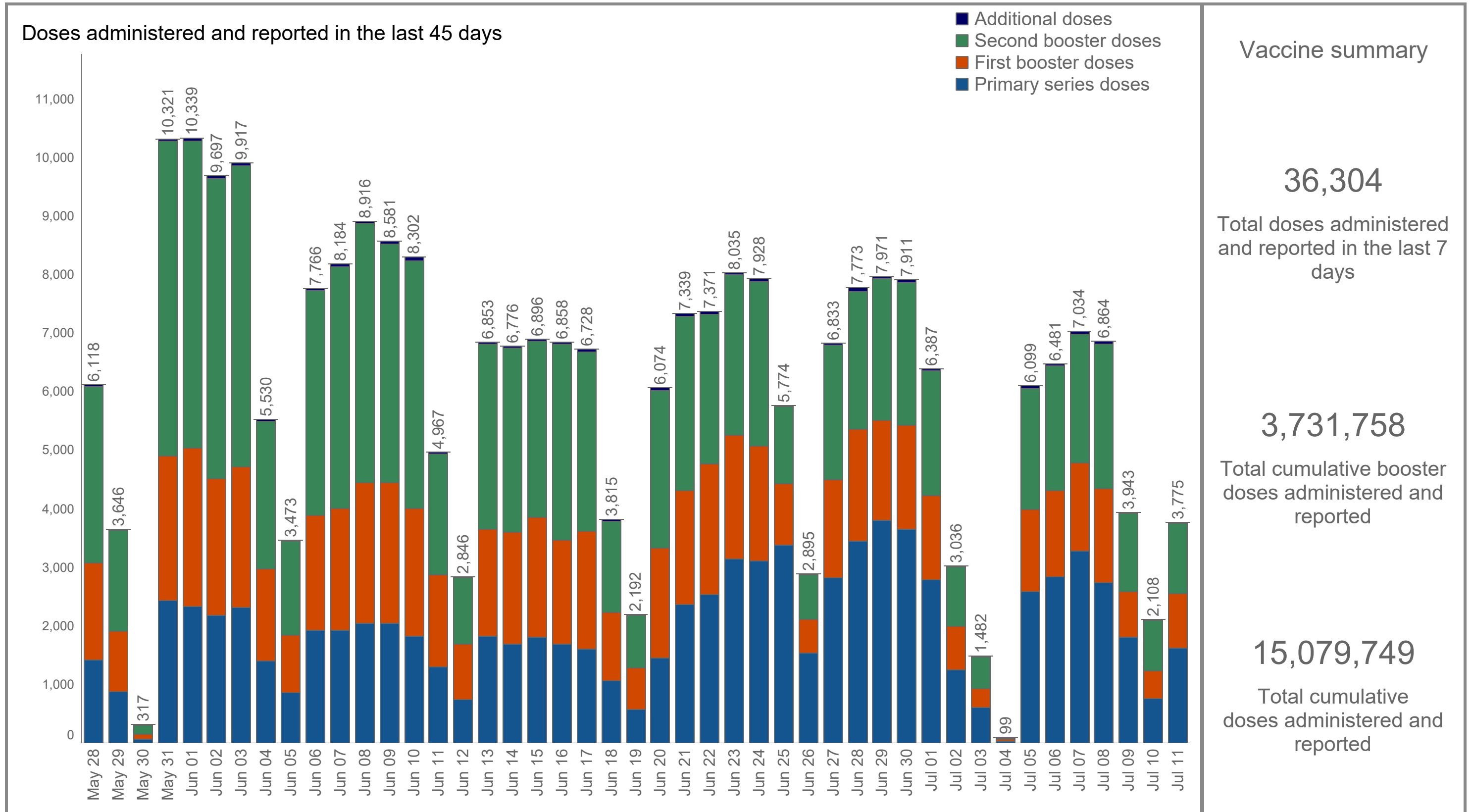
\*\*Fully vaccinated people have 2 doses of Moderna or Pfizer vaccine or 1 dose of Janssen (J&J) vaccine

\*\*\*Booster doses administered: An additional dose of mRNA vaccine (third of Pfizer or Moderna and second of J&J) is recommended for moderately and severely immunocompromised individuals to complete their primary series. Booster doses are recommended for everyone aged 12 years and older. See <https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions> for details on which formulation of vaccine is recommended at which intervals.

\*\*\*\*Additional booster doses: Number of unique individuals who have received an additional dose after the booster dose.

# COVID-19 Vaccine Doses Administered

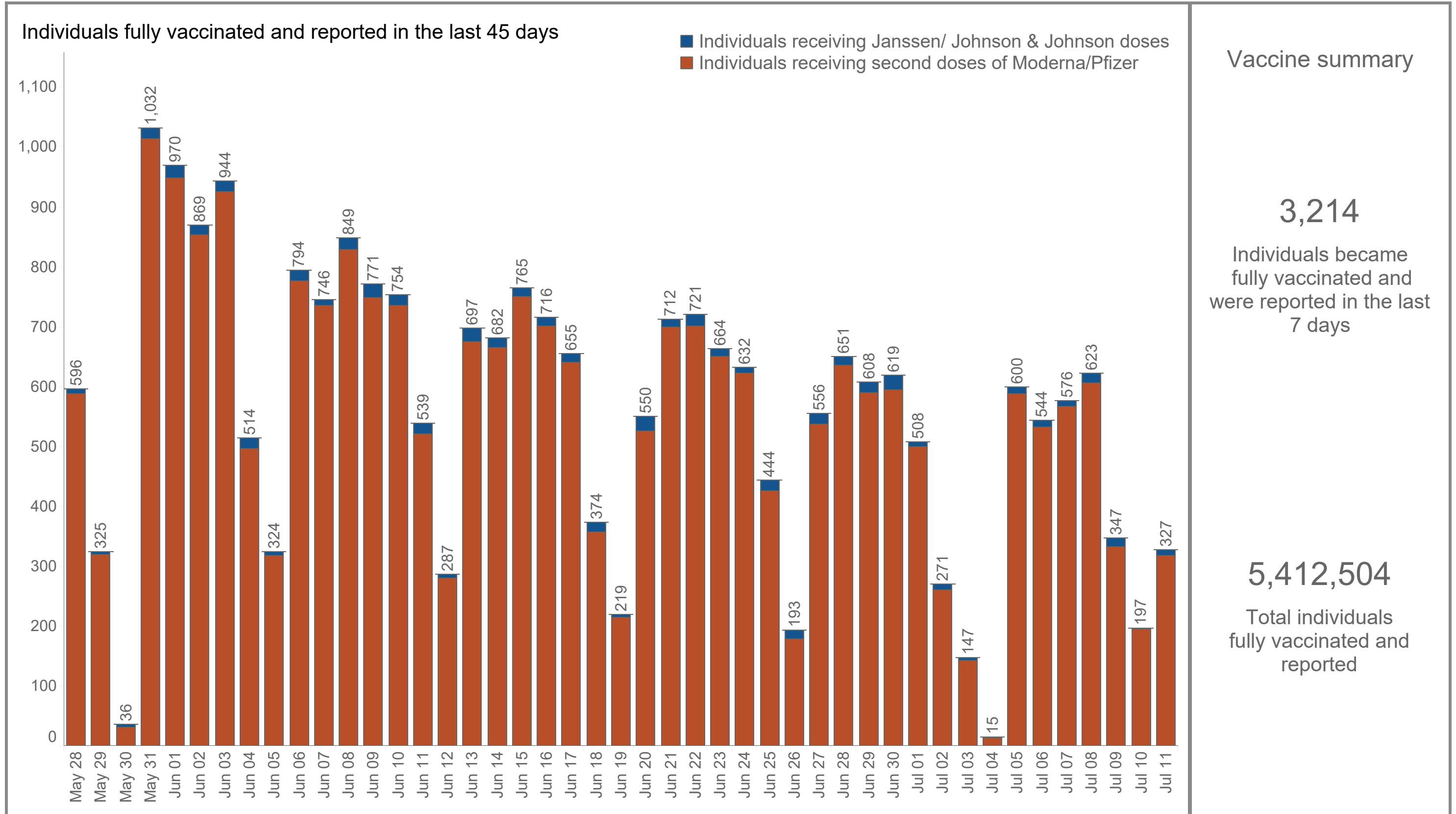
Data as of July 11, 2022



Note: Data from MIIS (see "definitions"). Data reflect doses administered (see "definitions"), including Janssen/Johnson & Johnson beginning on 3/5/21. Primary series includes the 1st and 2nd doses of a 2-dose vaccine and the 1st and only dose of a 1-dose vaccine. Booster doses include additional Pfizer and Moderna doses administered to immunocompromised individuals and those given as boosters for individuals in recommended subpopulations (see "definitions"); total cumulative booster doses includes additional doses after boosters. Dates reflect the date doses were administered.

# Individuals Fully Vaccinated

Data as of July 11, 2022



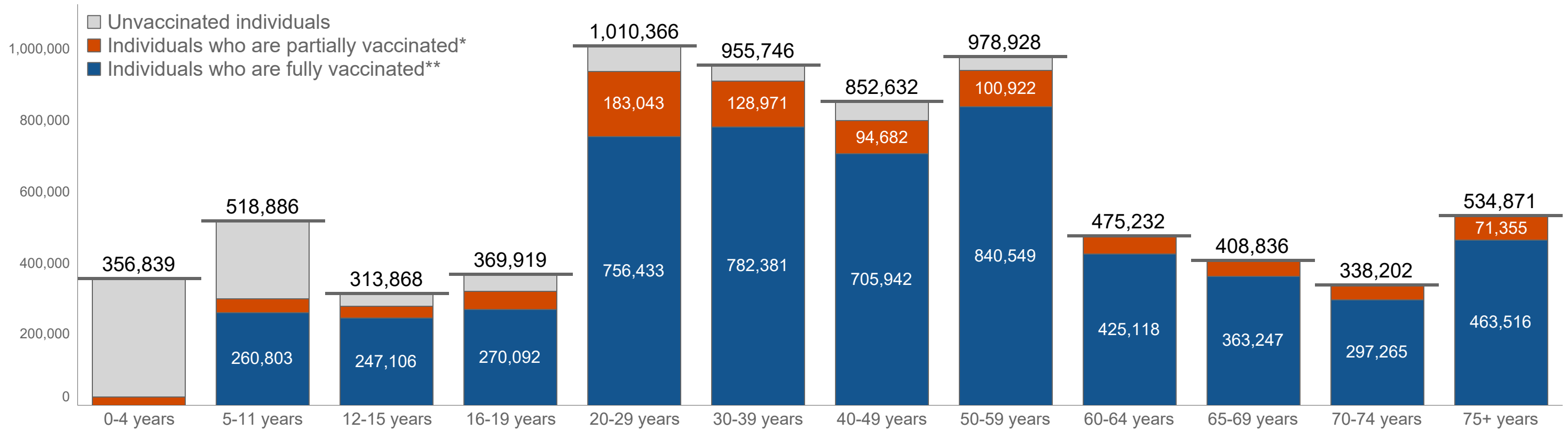
NOTE: Data from MIIS (see "definitions"). Data reflect individuals fully vaccinated (see "definitions"), including with Janssen/Johnson & Johnson beginning on 3/5/21; this is measured as the total number of 2nd doses of Moderna and Pfizer administered and reported plus the total number of Janssen/Johnson & Johnson doses administered and reported. Some individuals may receive a first or second dose of Moderna or Pfizer from a non-reporting provider and would not be included as fully vaccinated. Dates reflect the date doses were administered.

# Individuals with at Least One Dose

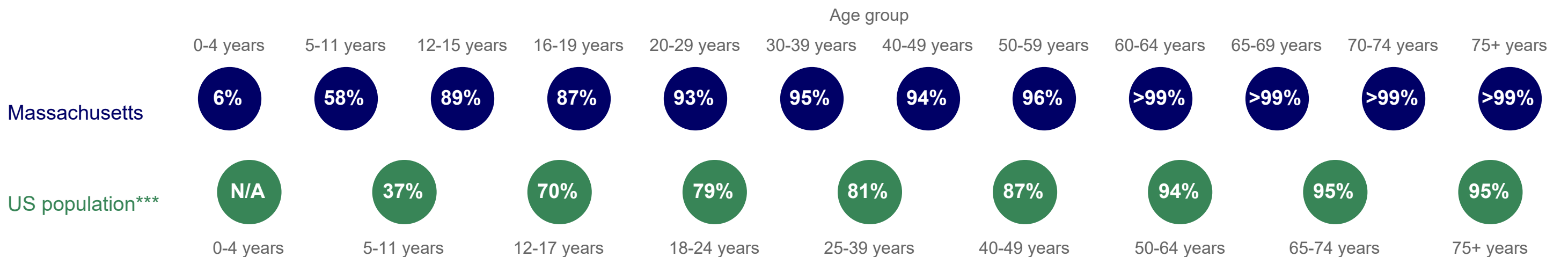
Data as of July 11, 2022

In Massachusetts, 89% of the population has received at least one dose, compared with 78% of the US population.

Vaccination status of individuals by age group (cumulative)



Percent of population with at least one dose



\*Individuals who are partially vaccinated are those that received the first dose but not the second dose of a two-dose vaccine. Individuals who are fully vaccinated are those that have received both doses of a two-dose vaccine or one dose of a single-dose vaccine. \*\*On 11/2/21, Pfizer vaccine was recommended for individuals aged 5-11. \*\*\*CDC percent of population coverage metrics are capped at 95%. For more information: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/reporting-vaccinations.html>

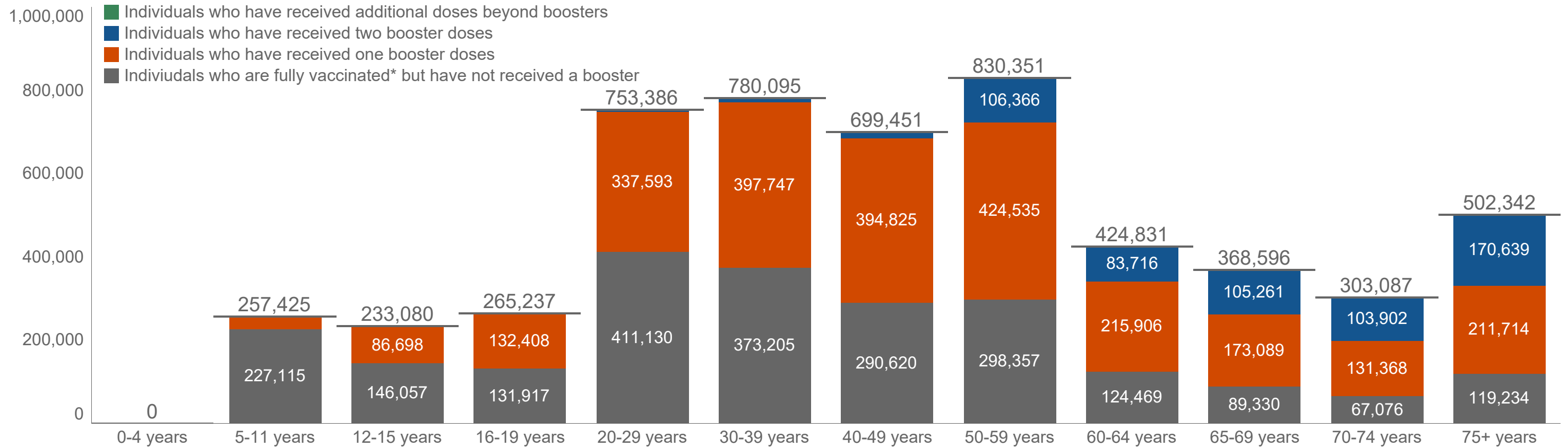
Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2022-07-06://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.)

# Individuals who have Received Booster Doses

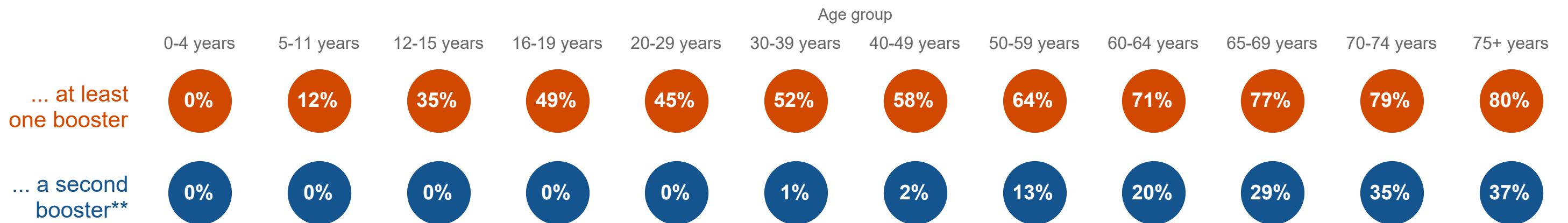
Data as of July 11, 2022

In Massachusetts, 58% of those fully vaccinated have received a booster dose, compared with 48% of the national population that is fully vaccinated.

## Booster status of fully vaccinated individuals by age group



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



\*Individuals who are fully vaccinated are those that have received both doses of a two-dose vaccine or one dose of a single-dose vaccine. This includes some individuals who may not be eligible for a booster (i.e. less than 2 or 5 months after primary series). \*\*Not mutually exclusive. The 'second booster' row includes all those counted in the first row, with at least one booster, plus those individuals who have received an additional dose.  
 Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2022-07-06. <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.)

# Individuals Fully Vaccinated

Data as of July 11, 2022

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

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

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Barnstable	44% of 1,171 residents	68% of 3,230 residents	77% of 6,644 residents	>95% of 7,637 residents	31% of 12,144 residents	>95% of 53 residents	76% of 198,117 residents	4% of 228,996 Barnstable county residents	78% of 228,996 residents
Berkshire	54% of 153 residents	70% of 1,978 residents	62% of 4,132 residents	61% of 6,619 residents	35% of 5,666 residents	*	74% of 110,470 residents	3% of 129,026 Berkshire county residents	74% of 129,026 residents
Bristol	45% of 1,045 residents	63% of 13,752 residents	73% of 24,506 residents	60% of 53,995 residents	32% of 32,048 residents	>95% of 148 residents	64% of 453,707 residents	3% of 579,200 Bristol county residents	65% of 579,200 residents
Dukes	36% of 219 residents	94% of 181 residents	>95% of 809 residents	>95% of 452 residents	19% of 1,899 residents	*	78% of 17,031 residents	8% of 20,600 Dukes county residents	85% of 20,600 residents
Essex	43% of 808 residents	73% of 29,651 residents	76% of 27,604 residents	55% of 181,759 residents	59% of 26,257 residents	>95% of 155 residents	77% of 543,595 residents	4% of 809,829 Essex county residents	75% of 809,829 residents
Franklin	51% of 122 residents	77% of 1,215 residents	63% of 985 residents	53% of 3,329 residents	29% of 3,207 residents	*	74% of 62,163 residents	3% of 71,029 Franklin county residents	74% of 71,029 residents
Hampden	58% of 646 residents	69% of 12,176 residents	58% of 36,442 residents	49% of 120,694 residents	46% of 15,087 residents	>95% of 165 residents	69% of 280,615 residents	4% of 465,825 Hampden county residents	67% of 465,825 residents
Hampshire	51% of 199 residents	48% of 10,709 residents	51% of 4,398 residents	48% of 11,248 residents	36% of 6,930 residents	>95% of 43 residents	73% of 128,781 residents	3% of 162,308 Hampshire county residents	70% of 162,308 residents

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

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

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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 unknown races and small, compounded rounding.

# Individuals Fully Vaccinated

Data as of July 11, 2022

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

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

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Middlesex	65% of 1,511 residents	74% of 212,123 residents	70% of 84,324 residents	73% of 141,738 residents	75% of 81,692 residents	>95% of 380 residents	78% of 1,110,235 residents	4% of 1,632,002 Middlesex county residents	80% of 1,632,002 residents
Nantucket	*	76% of 274 residents	95% of 1,025 residents	87% of 2,175 residents	23% of 615 residents	*	73% of 10,149 residents	7% of 14,255 Nantucket county residents	81% of 14,255 residents
Norfolk	51% of 736 residents	73% of 88,772 residents	72% of 50,563 residents	68% of 37,460 residents	>95% of 29,540 residents	>95% of 151 residents	77% of 518,759 residents	3% of 725,981 Norfolk county residents	79% of 725,981 residents
Plymouth	33% of 893 residents	65% of 7,962 residents	71% of 48,249 residents	63% of 23,417 residents	41% of 35,840 residents	60% of 220 residents	72% of 414,238 residents	3% of 530,819 Plymouth county residents	72% of 530,819 residents
Suffolk	50% of 1,235 residents	77% of 81,295 residents	73% of 142,086 residents	71% of 177,973 residents	55% of 37,543 residents	>95% of 357 residents	68% of 357,446 residents	5% of 797,936 Suffolk county residents	75% of 797,936 residents
Worcester	46% of 1,183 residents	70% of 46,778 residents	59% of 45,164 residents	66% of 110,448 residents	49% of 37,582 residents	>95% of 145 residents	70% of 620,810 residents	3% of 862,111 Worcester county residents	71% 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	2% 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	75% of 510,096 residents	71% of 476,930 residents	65% of 878,944 residents	58% of 326,050 residents	>95% of 1,841 residents	76% of 4,826,116 residents	4% of 7,029,917 MA residents	77% of 7,029,917 residents

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Note about totals: The difference in the MA 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 unknown races and small, compounded rounding.



# Individuals Fully Vaccinated

Data as of July 11, 2022

## Individuals fully vaccinated by county and age group (1 of 2)

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

	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>	41% of 12,225 residents	73% of 7,999 residents	80% of 8,444 residents	72% of 22,109 residents	83% of 20,313 residents	79% of 21,363 residents	81% of 34,083 residents	87% of 21,351 residents	86% of 21,806 residents	89% of 19,831 residents	93% of 31,352 residents	78% of 228,996 residents
<b>Berkshire</b>	52% of 8,296 residents	73% of 5,380 residents	67% of 6,484 residents	64% of 15,369 residents	78% of 13,757 residents	77% of 13,736 residents	79% of 19,125 residents	86% of 10,525 residents	88% of 9,518 residents	93% of 8,017 residents	87% of 13,390 residents	74% of 129,026 residents
<b>Bristol</b>	28% of 45,540 residents	60% of 27,527 residents	65% of 29,121 residents	59% of 74,766 residents	65% of 73,958 residents	69% of 73,224 residents	76% of 85,414 residents	85% of 39,125 residents	90% of 31,728 residents	91% of 25,741 residents	85% of 42,964 residents	65% of 579,200 residents
<b>Dukes</b>	54% of 1,267 residents	>95% of 785 residents	>95% of 653 residents	94% of 2,070 residents	>95% of 2,359 residents	93% of 2,432 residents	83% of 3,147 residents	83% of 1,702 residents	78% of 1,801 residents	85% of 1,574 residents	87% of 1,929 residents	85% of 20,600 residents
<b>Essex</b>	48% of 64,079 residents	78% of 38,871 residents	77% of 41,764 residents	70% of 102,396 residents	80% of 101,407 residents	81% of 99,259 residents	84% of 118,474 residents	91% of 56,226 residents	94% of 46,143 residents	94% of 36,776 residents	90% of 60,087 residents	75% of 809,829 residents
<b>Franklin</b>	42% of 4,819 residents	69% of 2,910 residents	85% of 2,764 residents	68% of 7,572 residents	74% of 8,732 residents	73% of 8,315 residents	78% of 10,333 residents	83% of 6,159 residents	89% of 5,875 residents	>95% of 4,581 residents	90% of 5,954 residents	74% of 71,029 residents
<b>Hampden</b>	32% of 38,042 residents	62% of 23,128 residents	60% of 26,022 residents	57% of 65,472 residents	68% of 59,405 residents	74% of 53,671 residents	79% of 62,992 residents	87% of 31,187 residents	92% of 25,936 residents	95% of 20,519 residents	88% of 34,534 residents	67% of 465,825 residents
<b>Hampshire</b>	61% of 8,930 residents	81% of 5,934 residents	36% of 16,019 residents	45% of 33,434 residents	81% of 16,604 residents	82% of 16,047 residents	85% of 20,206 residents	93% of 10,664 residents	>95% of 9,895 residents	>95% of 7,914 residents	>95% of 11,383 residents	70% of 162,308 residents

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# Individuals Fully Vaccinated

Data as of July 11, 2022

## Individuals fully vaccinated by county and age group (2 of 2)

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

	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	65% of 121,734 residents	90% of 73,083 residents	78% of 82,715 residents	76% of 242,436 residents	84% of 242,118 residents	87% of 206,995 residents	88% of 222,367 residents	93% of 100,804 residents	>95% of 81,083 residents	>95% of 64,640 residents	92% of 110,359 residents	80% of 1,632,002 residents
Nantucket	43% of 1,012 residents	85% of 562 residents	>95% of 507 residents	>95% of 1,722 residents	92% of 2,214 residents	91% of 2,184 residents	91% of 2,082 residents	87% of 945 residents	89% of 764 residents	92% of 562 residents	75% of 847 residents	81% of 14,255 residents
Norfolk	61% of 56,630 residents	84% of 35,180 residents	83% of 36,428 residents	77% of 90,767 residents	83% of 95,497 residents	82% of 93,243 residents	87% of 105,961 residents	92% of 48,444 residents	>95% of 39,164 residents	>95% of 31,323 residents	88% of 55,829 residents	79% of 725,981 residents
Plymouth	40% of 42,518 residents	67% of 26,597 residents	76% of 27,177 residents	68% of 61,517 residents	74% of 61,280 residents	75% of 65,393 residents	81% of 81,528 residents	88% of 38,334 residents	92% of 31,886 residents	94% of 26,374 residents	91% of 40,701 residents	72% of 530,819 residents
Suffolk	49% of 47,420 residents	84% of 26,325 residents	56% of 46,527 residents	76% of 176,345 residents	80% of 145,860 residents	86% of 88,768 residents	86% of 87,549 residents	87% of 40,123 residents	90% of 32,272 residents	93% of 24,580 residents	84% of 41,995 residents	75% of 797,936 residents
Worcester	42% of 68,600 residents	72% of 42,016 residents	70% of 46,659 residents	65% of 114,476 residents	73% of 111,763 residents	75% of 108,360 residents	80% of 126,900 residents	87% of 58,820 residents	92% of 46,033 residents	94% of 35,450 residents	87% of 57,952 residents	71% of 862,111 residents
Unknown/ Unspecified**	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	2% 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	50% of 521,112 residents	78% of 316,296 residents	73% of 371,285 residents	75% of 1,010,451 residents	82% of 955,267 residents	83% of 852,990 residents	86% of 980,162 residents	92% of 464,409 residents	95% of 383,903 residents	>95% of 307,883 residents	91% of 509,277 residents	77% of 7,029,917 residents

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# Individuals who have Received Booster Doses

Data as of July 11, 2022

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

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

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Barnstable	52% of 518 residents	57% of 2,208 residents	36% of 5,102 residents	47% of 7,391 residents	67% of 3,804 residents	39% of 98 residents	66% of 150,098 residents	1% of 178,567 Barnstable county residents	62% of 178,567 residents
Berkshire	*	51% of 1,392 residents	41% of 2,558 residents	41% of 4,040 residents	60% of 1,968 residents	*	62% of 81,689 residents	1% of 95,336 Berkshire county residents	59% of 95,336 residents
Bristol	32% of 470 residents	51% of 8,716 residents	40% of 17,894 residents	38% of 32,134 residents	59% of 10,110 residents	33% of 172 residents	56% of 292,245 residents	1% of 377,793 Bristol county residents	52% of 377,793 residents
Dukes	49% of 79 residents	63% of 170 residents	42% of 853 residents	39% of 887 residents	62% of 368 residents	*	66% of 13,346 residents	2% of 17,437 Dukes county residents	59% of 17,437 residents
Essex	36% of 349 residents	59% of 21,561 residents	43% of 21,084 residents	40% of 99,492 residents	64% of 15,387 residents	42% of 193 residents	63% of 420,746 residents	1% of 609,818 Essex county residents	56% of 609,818 residents
Franklin	*	54% of 935 residents	46% of 621 residents	48% of 1,764 residents	70% of 945 residents	*	65% of 45,913 residents	1% of 52,358 Franklin county residents	63% of 52,358 residents
Hampden	35% of 372 residents	53% of 8,341 residents	46% of 20,993 residents	39% of 59,113 residents	59% of 6,967 residents	38% of 188 residents	60% of 193,239 residents	2% of 310,104 Hampden county residents	52% of 310,104 residents
Hampshire	58% of 102 residents	58% of 5,143 residents	53% of 2,255 residents	53% of 5,376 residents	71% of 2,518 residents	*	69% of 93,497 residents	1% of 113,917 Hampshire county residents	66% of 113,917 residents

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# Individuals who have Received Booster Doses

Data as of July 11, 2022

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

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

	American Indian or Alaskan Native	Asian	Black or African American	Hispanic	Multi-race	Native Hawaiian or Pacific Islander	White	Unknown/ Other race**	Total
Middlesex	38% of 979 residents	63% of 156,146 residents	49% of 59,261 residents	44% of 103,915 residents	71% of 60,945 residents	46% of 510 residents	68% of 865,774 residents	1% of 1,308,097 Middlesex county residents	63% of 1,308,097 residents
Nantucket	*	55% of 209 residents	34% of 969 residents	26% of 1,894 residents	60% of 144 residents	*	61% of 7,448 residents	1% of 11,616 Nantucket county residents	49% of 11,616 residents
Norfolk	39% of 375 residents	65% of 65,017 residents	50% of 36,601 residents	50% of 25,598 residents	70% of 28,216 residents	47% of 232 residents	66% of 397,347 residents	1% of 572,975 Norfolk county residents	63% of 572,975 residents
Plymouth	35% of 293 residents	60% of 5,209 residents	40% of 34,315 residents	44% of 14,761 residents	61% of 14,547 residents	37% of 132 residents	61% of 299,321 residents	1% of 382,133 Plymouth county residents	57% of 382,133 residents
Suffolk	41% of 623 residents	60% of 62,726 residents	51% of 104,259 residents	44% of 127,098 residents	68% of 20,466 residents	48% of 571 residents	65% of 242,319 residents	2% of 597,181 Suffolk county residents	55% of 597,181 residents
Worcester	31% of 550 residents	59% of 32,681 residents	44% of 26,570 residents	40% of 72,473 residents	64% of 18,235 residents	44% of 216 residents	61% of 435,435 residents	1% of 608,416 Worcester county residents	57% of 608,416 residents
Unknown/ Unspecified**	1% of 5,123 AI/AN residents	2% of 383,530 Asian residents	1% of 340,566 Black residents	1% of 567,618 Hispanic residents	1% of 187,840 Multi-race residents	1% of 2,532 NH/PI residents	1% of 3,655,698 White residents	0% of 5,412,504 MA residents	1% of 5,412,504 residents
Massachusetts	38% of 5,123 residents	61% of 383,530 residents	47% of 340,566 residents	42% of 567,618 residents	67% of 187,840 residents	43% of 2,532 residents	63% of 3,655,698 residents	1% of 5,412,504 MA residents	58% of 5,412,504 residents

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

\*\* "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).

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"), including Janssen/Johnson & Johnson beginning on 3/5/21. An individual is counted as having at least 1 booster dose if they have received one or more doses after their primary series of two Moderna and Pfizer doses or one Janssen/Johnson & Johnson doses.

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 unknown races and small, compounded rounding.

# Individuals who have Received Booster Doses

Data as of July 11, 2022

Individuals with at least one booster dose administered by county and age group (1 of 2)

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

	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
<b>Barnstable</b>	6% of 4,957 residents	28% of 5,812 residents	47% of 6,718 residents	41% of 15,852 residents	44% of 16,810 residents	52% of 16,977 residents	60% of 27,476 residents	71% of 18,547 residents	78% of 18,818 residents	82% of 17,564 residents	84% of 29,035 residents	62% of 178,567 residents
<b>Berkshire</b>	7% of 4,288 residents	34% of 3,908 residents	49% of 4,351 residents	41% of 9,851 residents	48% of 10,711 residents	56% of 10,545 residents	62% of 15,131 residents	71% of 9,081 residents	77% of 8,349 residents	78% of 7,432 residents	80% of 11,688 residents	59% of 95,336 residents
<b>Bristol</b>	6% of 12,664 residents	24% of 16,541 residents	42% of 18,830 residents	38% of 43,739 residents	40% of 48,403 residents	47% of 50,637 residents	56% of 65,086 residents	65% of 33,282 residents	72% of 28,559 residents	74% of 23,528 residents	76% of 36,523 residents	52% of 377,793 residents
<b>Dukes</b>	*	38% of 761 residents	51% of 701 residents	34% of 1,949 residents	43% of 2,624 residents	54% of 2,266 residents	65% of 2,612 residents	76% of 1,406 residents	81% of 1,413 residents	84% of 1,343 residents	94% of 1,672 residents	59% of 17,437 residents
<b>Essex</b>	8% of 30,832 residents	32% of 30,409 residents	48% of 32,164 residents	43% of 71,918 residents	48% of 81,182 residents	56% of 80,152 residents	63% of 99,948 residents	71% of 51,123 residents	77% of 43,233 residents	78% of 34,620 residents	80% of 54,234 residents	56% of 609,818 residents
<b>Franklin</b>	10% of 2,025 residents	39% of 2,003 residents	49% of 2,358 residents	45% of 5,153 residents	53% of 6,492 residents	61% of 6,102 residents	65% of 8,075 residents	72% of 5,106 residents	78% of 5,258 residents	85% of 4,449 residents	82% of 5,336 residents	63% of 52,358 residents
<b>Hampden</b>	5% of 12,237 residents	25% of 14,369 residents	40% of 15,653 residents	36% of 37,471 residents	41% of 40,394 residents	49% of 39,614 residents	58% of 49,846 residents	67% of 26,981 residents	74% of 23,852 residents	77% of 19,450 residents	77% of 30,235 residents	52% of 310,104 residents
<b>Hampshire</b>	18% of 5,467 residents	49% of 4,796 residents	55% of 5,821 residents	52% of 15,030 residents	59% of 13,433 residents	67% of 13,189 residents	70% of 17,143 residents	76% of 9,950 residents	82% of 9,693 residents	86% of 8,357 residents	86% of 11,037 residents	66% of 113,917 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 unknown races and small, compounded rounding.

# Individuals who have Received Booster Doses

Data as of July 11, 2022

## Individuals with at least one booster dose administered by county and age group (2 of 2)

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

	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
Middlesex	17% of 79,164 residents	45% of 65,411 residents	58% of 64,858 residents	51% of 183,366 residents	60% of 203,034 residents	66% of 179,691 residents	70% of 195,285 residents	76% of 93,718 residents	81% of 78,086 residents	82% of 63,735 residents	83% of 101,735 residents	63% of 1,308,097 residents
Nantucket	*	28% of 480 residents	40% of 487 residents	26% of 1,638 residents	36% of 2,044 residents	50% of 1,994 residents	59% of 1,885 residents	69% of 820 residents	79% of 680 residents	82% of 517 residents	85% of 632 residents	49% of 11,616 residents
Norfolk	15% of 34,776 residents	42% of 29,498 residents	59% of 30,258 residents	53% of 70,176 residents	59% of 79,292 residents	66% of 76,087 residents	70% of 91,910 residents	76% of 44,683 residents	81% of 37,268 residents	82% of 29,944 residents	83% of 49,072 residents	63% of 572,975 residents
Plymouth	6% of 16,950 residents	28% of 17,850 residents	48% of 20,523 residents	44% of 41,533 residents	47% of 45,271 residents	55% of 48,887 residents	61% of 65,975 residents	70% of 33,617 residents	77% of 29,431 residents	80% of 24,892 residents	81% of 37,202 residents	57% of 382,133 residents
Suffolk	10% of 23,182 residents	29% of 22,175 residents	39% of 26,257 residents	43% of 134,532 residents	55% of 116,878 residents	58% of 76,244 residents	63% of 75,689 residents	71% of 34,836 residents	76% of 29,137 residents	79% of 22,853 residents	80% of 35,394 residents	55% of 597,181 residents
Worcester	8% of 28,816 residents	32% of 30,075 residents	49% of 32,615 residents	43% of 74,848 residents	47% of 81,834 residents	55% of 81,800 residents	62% of 101,384 residents	71% of 51,121 residents	78% of 42,163 residents	80% of 33,488 residents	81% of 50,266 residents	57% of 608,416 residents
Unknown/ Unspecified**	0% of 260,803 MA residents 5-11 Years	0% of 247,106 MA residents 12-15 Years	1% of 270,092 MA residents 16-19 Years	3% of 756,433 MA residents 20-29 Years	2% of 782,381 MA residents 30-39 Years	1% of 705,942 MA residents 40-49 Years	1% of 840,549 MA residents 50-59 Years	1% of 425,118 MA residents 60-64 Years	1% of 363,247 MA residents 65-69 Years	1% of 297,265 MA residents 70-74 Years	1% of 463,516 MA residents 75+ Years	1% of 5,412,504 residents
Massachusetts	12% of 260,803 residents	35% of 247,106 residents	49% of 270,092 residents	45% of 756,433 residents	52% of 782,381 residents	58% of 705,942 residents	64% of 840,549 residents	71% of 425,118 residents	77% of 363,247 residents	79% of 297,265 residents	80% of 463,516 residents	58% of 5,412,504 residents

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

\*\* "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).

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"), including Janssen/Johnson & Johnson beginning on 3/5/21. An individual is counted as having at least 1 booster dose if they have received one or more doses after their primary series of two Moderna and Pfizer doses or one Janssen/Johnson & Johnson doses. As of 5/20/21, the 0-19 years population category was split into 12-15 and 16-19 years to more closely reflect the population eligible for vaccines (12+). On 11/2/21, the 5-11 years column was added to reflect updated vaccination recommendations. Total column shows a small number of doses with ages incorrectly marked as 0-4 years.

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 unknown races and small, compounded rounding.

## Critical definitions

**Please note:** the following terms and definition apply to COVID-19 only. Updated 11/5/2021.

**Doses administered:** Doses of vaccine that have been given to people by providers. All doses, including the 1st and 2nd doses of a 2-dose vaccine and the 1st and only dose of a 1-dose vaccine, 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 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. This is measured as the total number of 2nd doses of Moderna and Pfizer administered and reported plus the total number of Janssen/Johnson & Johnson doses administered and reported.

**Individuals with at least 1 dose:** An individual is counted as having at least 1 dose if they have received one or more doses of vaccine. This is measured as the total number of 1st doses of Moderna and Pfizer vaccine administered and reported, plus the total number of Janssen/Johnson & Johnson doses administered and reported.

**Booster doses administered:** Data on booster doses administered reflect the additional (third) dose of mRNA vaccine (Pfizer or Moderna) recommended on 8/13/21 for severely immunocompromised individuals to complete their primary series. On 9/24/21, booster doses of Pfizer vaccine were recommended for individuals aged 65 and older, for those at risk for severe disease, or for those at high risk for occupational exposure 6 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 2 months after receiving initial Johnson & Johnson vaccine. MIIS does not include data on health states or occupations of individuals. 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 fully vaccinated people who had previously been double counted. On 1/4/22, the Pfizer vaccine booster dose recommendation was revised to be 5 months after completing primary series. On 1/7/22, the Moderna vaccine booster dose recommendation was revised to be 5 months after completing primary series.

**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.