



# 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 20, 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 25, 2022

Administered (MIIS)* through Monday, July 25, 2022 (Running totals by day)							
	July 19, 2022	July 20, 2022	July 21, 2022	July 22, 2022	July 23, 2022	July 24, 2022	July 25, 2022
At least one dose -- number of <b>people</b> who received at least one dose of Moderna, Pfizer, or Johnson & Johnson vaccine	6,286,386	6,288,485	6,290,777	6,292,898	6,294,067	6,294,573	6,295,675
Fully vaccinated -- number of <b>people</b> who received a primary series of Moderna, Pfizer, or Johnson & Johnson vaccine**	5,423,249	5,424,880	5,426,614	5,428,171	5,429,485	5,429,985	5,430,832
Booster doses -- number of <b>people</b> who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,152,966	3,154,525	3,156,105	3,157,799	3,158,673	3,159,121	3,160,084
Second booster doses -- number of <b>people</b> who have received at least 2 booster doses****	631,192	634,471	637,992	641,976	644,114	645,334	646,930
<b>Total Doses Administered (MIIS)</b>	15,155,659	15,164,262	15,173,426	15,182,830	15,188,351	15,191,044	15,195,571

\*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.

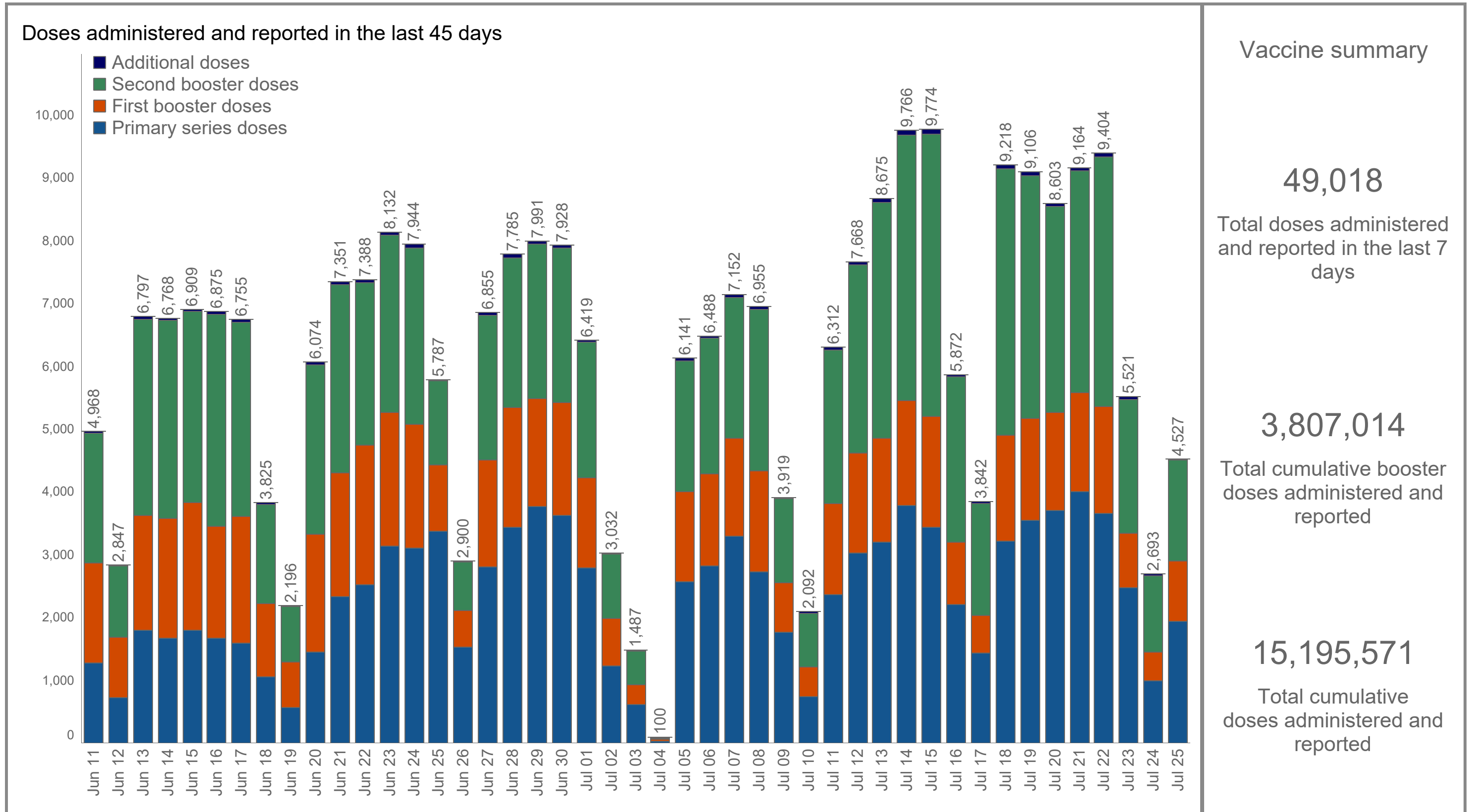
\*\*Fully vaccinated people have 2 doses of Moderna or Pfizer vaccine or 1 dose of Janssen (J&J) vaccine

\*\*\*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. One booster dose is recommended for everyone aged 5 years and older. See <https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions> for details on which formulation of vaccine is recommended at which intervals.

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

# COVID-19 Vaccine Doses Administered

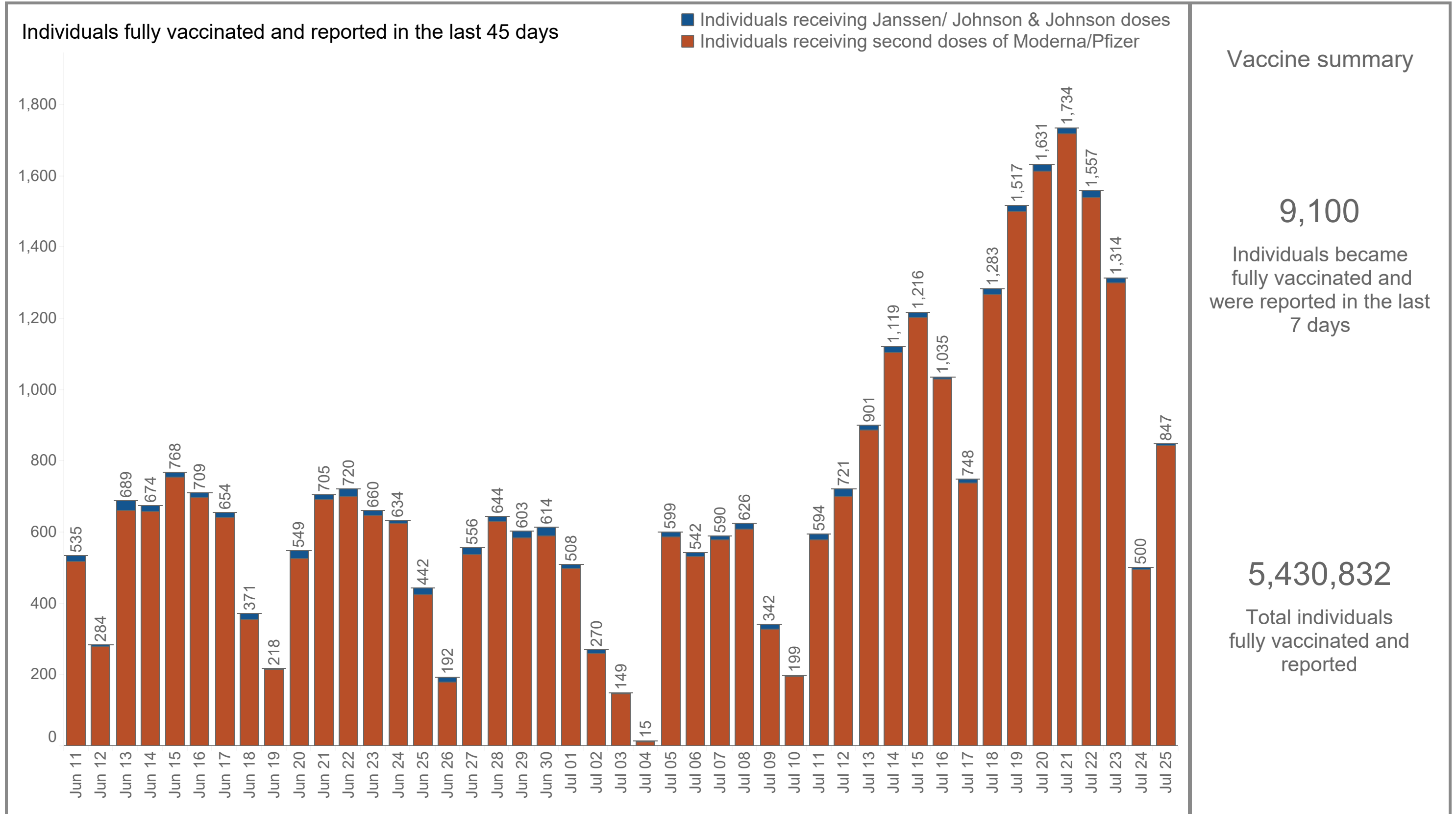
Data as of July 25, 2022



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 25, 2022



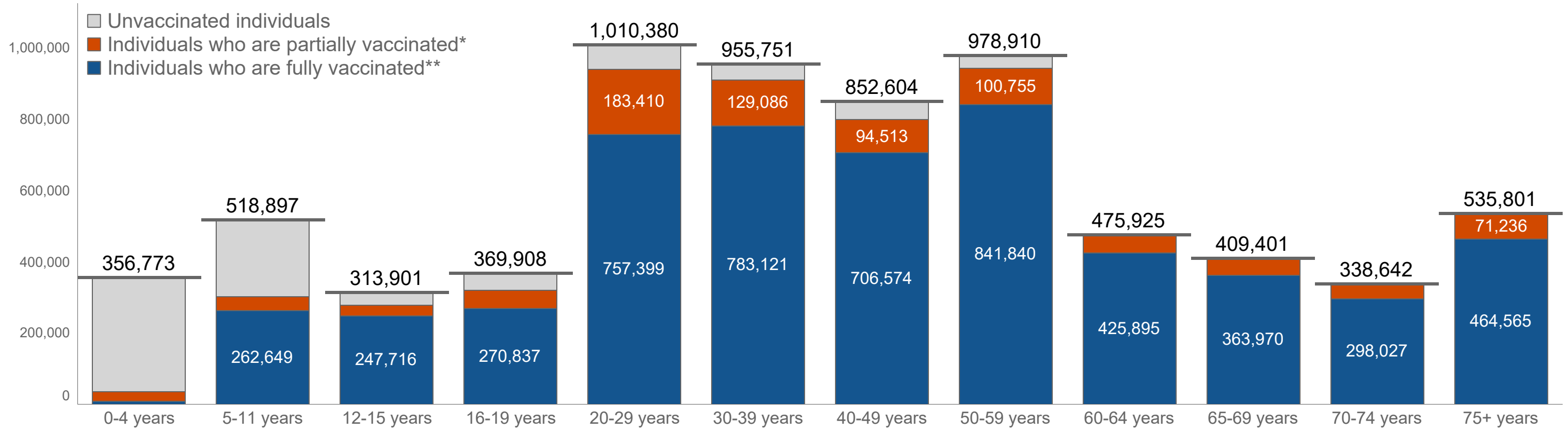
NOTE: Data from MIIS (see "definitions"). Data reflect individuals fully vaccinated (see "definitions"), including with Janssen/Johnson & Johnson beginning on 3/5/21; this is measured as the total number of 2nd doses of Moderna and Pfizer administered and reported plus the total number of Janssen/Johnson & 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

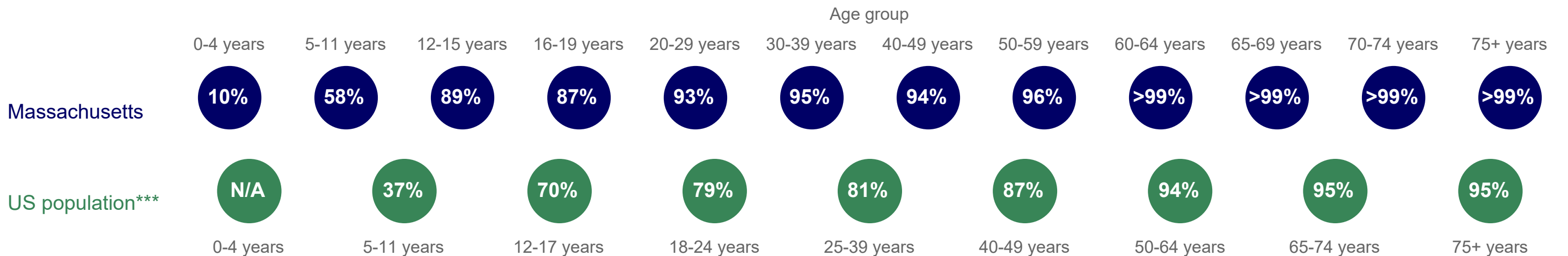
Data as of July 25, 2022

In Massachusetts, 90% of the population has received at least one dose, compared with 79% 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>

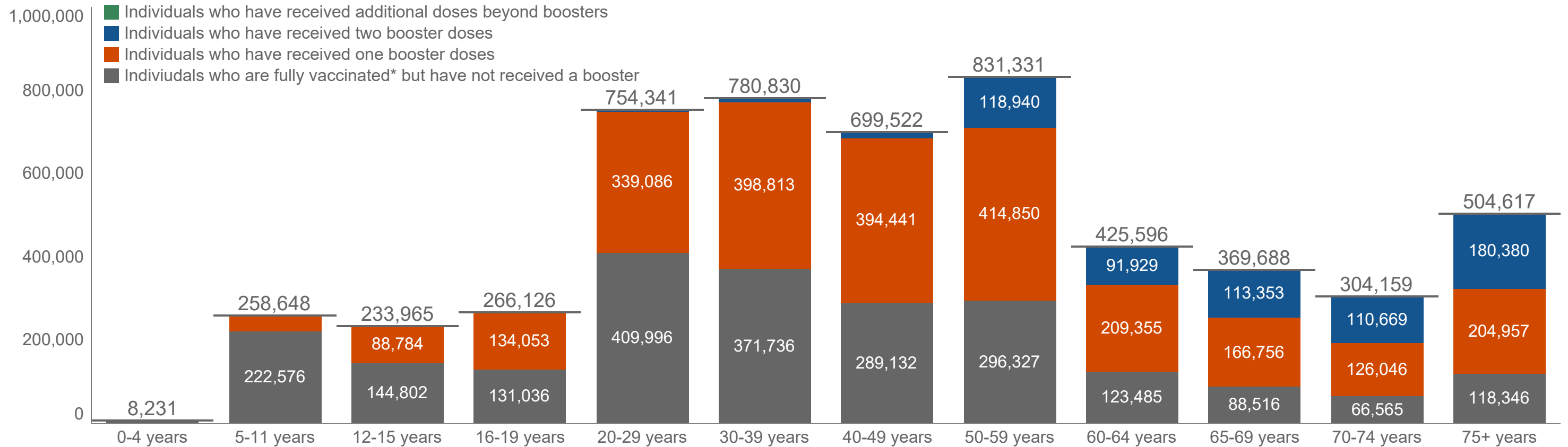
Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2022-07-20://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

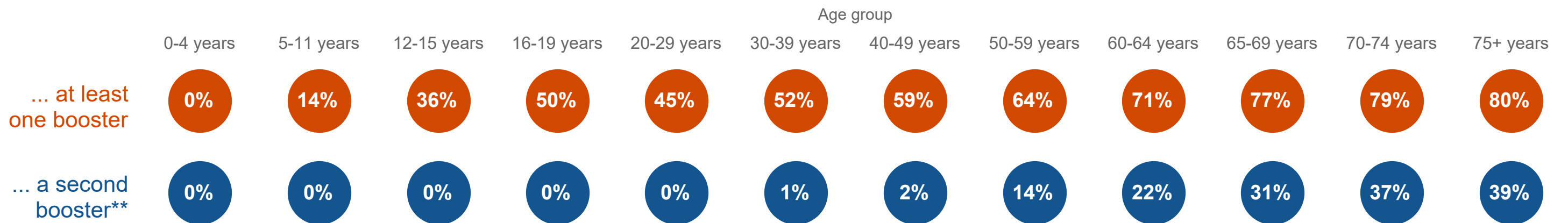
Data as of July 25, 2022

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;2022-07-20. <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 25, 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	69% of 3,230 residents	77% of 6,644 residents	>95% of 7,637 residents	32% 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	55% of 153 residents	71% 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	64% of 13,752 residents	73% of 24,506 residents	60% of 53,995 residents	32% of 32,048 residents	>95% of 148 residents	65% of 453,707 residents	3% of 579,200 Bristol county residents	65% of 579,200 residents
Dukes	44% of 219 residents	94% of 181 residents	>95% of 809 residents	>95% of 452 residents	20% of 1,899 residents	*	78% of 17,031 residents	8% of 20,600 Dukes county residents	85% of 20,600 residents
Essex	44% 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	78% 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	30% of 3,207 residents	*	74% of 62,163 residents	3% of 71,029 Franklin county residents	74% of 71,029 residents
Hampden	57% of 646 residents	69% of 12,176 residents	58% of 36,442 residents	49% of 120,694 residents	47% 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	52% of 199 residents	48% of 10,709 residents	52% of 4,398 residents	48% of 11,248 residents	37% of 6,930 residents	>95% of 43 residents	73% of 128,781 residents	3% of 162,308 Hampshire county residents	71% 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).

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.

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 25, 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	71% 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	24% of 615 residents	*	74% of 10,149 residents	7% of 14,255 Nantucket county residents	82% of 14,255 residents
Norfolk	52% of 736 residents	74% of 88,772 residents	73% of 50,563 residents	69% 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	66% of 7,962 residents	71% of 48,249 residents	63% of 23,417 residents	41% of 35,840 residents	59% 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	74% of 142,086 residents	72% 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	47% 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	72% 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

\* 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.

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 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 25, 2022

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

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

	0-4 years	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
<b>Barnstable</b>	1% of 8,117 residents	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	80% of 21,363 residents	81% of 34,083 residents	87% of 21,351 residents	87% of 21,806 residents	89% of 19,831 residents	93% of 31,352 residents	78% of 228,996 residents
<b>Berkshire</b>	2% of 5,429 residents	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>	1% of 30,091 residents	28% of 45,540 residents	60% of 27,527 residents	65% of 29,121 residents	59% of 74,766 residents	66% of 73,958 residents	69% of 73,224 residents	76% of 85,414 residents	85% of 39,125 residents	90% of 31,728 residents	92% of 25,741 residents	85% of 42,964 residents	65% of 579,200 residents
<b>Dukes</b>	*	56% 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	79% of 1,801 residents	85% of 1,574 residents	87% of 1,929 residents	85% of 20,600 residents
<b>Essex</b>	1% of 44,345 residents	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>	2% of 3,011 residents	42% of 4,819 residents	69% of 2,910 residents	86% 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	90% of 5,875 residents	>95% of 4,581 residents	90% of 5,954 residents	74% of 71,029 residents
<b>Hampden</b>	1% of 24,918 residents	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>	7% of 5,278 residents	62% 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	71% 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).

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.

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.) 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. 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 25, 2022

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

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

	0-4 years	5-11 years	12-15 years	16-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-64 years	65-69 years	70-74 years	75+ years	Total
Middlesex	4% of 83,667 residents	65% of 121,734 residents	90% of 73,083 residents	79% 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	*	44% 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	93% of 562 residents	75% of 847 residents	82% of 14,255 residents
Norfolk	3% of 37,515 residents	62% 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	1% of 27,514 residents	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	95% of 26,374 residents	92% of 40,701 residents	72% of 530,819 residents
Suffolk	2% of 40,171 residents	49% of 47,420 residents	85% of 26,325 residents	57% of 46,527 residents	76% of 176,345 residents	80% of 145,860 residents	86% of 88,768 residents	87% 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	1% of 45,082 residents	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	76% of 108,360 residents	80% of 126,900 residents	87% of 58,820 residents	92% of 46,033 residents	95% of 35,450 residents	87% of 57,952 residents	71% of 862,111 residents
Unknown/ Unspecified**	0% of 356,875 MA residents 0-4 Years	1% of 521,112 MA residents 5-11 Years	1% of 316,296 MA residents 12-15 Years	2% of 371,285 MA residents 16-19 Years	5% of 1,010,451 MA residents 20-29 Years	4% of 955,267 MA residents 30-39 Years	3% of 852,990 MA residents 40-49 Years	2% of 980,162 MA residents 50-59 Years	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	2% of 356,875 residents	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

\* 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.

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.) 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. 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 25, 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	53% of 518 residents	57% of 2,213 residents	36% of 5,114 residents	47% of 7,428 residents	68% of 3,836 residents	39% of 96 residents	66% of 150,514 residents	1% of 179,056 Barnstable county residents	62% of 179,056 residents
Berkshire	*	52% of 1,399 residents	42% of 2,578 residents	42% of 4,039 residents	60% of 1,976 residents	*	62% of 81,894 residents	1% of 95,573 Berkshire county residents	59% of 95,573 residents
Bristol	33% of 474 residents	51% of 8,733 residents	41% of 17,970 residents	38% of 32,301 residents	59% of 10,195 residents	33% of 173 residents	56% of 292,804 residents	1% of 378,668 Bristol county residents	52% of 378,668 residents
Dukes	56% of 97 residents	64% of 170 residents	42% of 857 residents	40% of 893 residents	62% of 377 residents	*	67% of 13,367 residents	2% of 17,492 Dukes county residents	59% of 17,492 residents
Essex	36% of 352 residents	59% of 21,605 residents	44% of 21,115 residents	41% of 99,956 residents	65% of 15,520 residents	43% of 191 residents	63% of 421,747 residents	1% of 611,409 Essex county residents	57% of 611,409 residents
Franklin	*	54% of 937 residents	47% of 625 residents	49% of 1,770 residents	70% of 956 residents	*	66% of 46,029 residents	1% of 52,498 Franklin county residents	63% of 52,498 residents
Hampden	35% of 370 residents	53% of 8,358 residents	47% of 21,064 residents	40% of 59,253 residents	59% of 7,038 residents	39% of 190 residents	60% of 193,787 residents	2% of 310,924 Hampden county residents	53% of 310,924 residents
Hampshire	57% of 104 residents	58% of 5,158 residents	53% of 2,268 residents	53% of 5,386 residents	71% of 2,530 residents	*	69% of 93,954 residents	1% of 114,471 Hampshire county residents	66% of 114,471 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 25, 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 987 residents	63% of 156,839 residents	50% of 59,482 residents	45% of 104,156 residents	71% of 61,449 residents	48% of 509 residents	68% of 869,540 residents	1% of 1,313,752 Middlesex county residents	63% of 1,313,752 residents
Nantucket	*	55% of 209 residents	34% of 969 residents	26% of 1,895 residents	61% of 145 residents	*	61% of 7,461 residents	1% of 11,632 Nantucket county residents	49% of 11,632 residents
Norfolk	39% of 380 residents	65% of 65,269 residents	51% of 36,759 residents	50% of 25,711 residents	70% of 28,478 residents	47% of 235 residents	67% of 398,855 residents	1% of 575,340 Norfolk county residents	64% of 575,340 residents
Plymouth	36% of 295 residents	60% of 5,225 residents	40% of 34,484 residents	44% of 14,795 residents	61% of 14,653 residents	39% of 130 residents	61% of 300,096 residents	1% of 383,247 Plymouth county residents	58% of 383,247 residents
Suffolk	42% of 623 residents	61% of 62,919 residents	51% of 104,571 residents	44% of 127,447 residents	69% of 20,590 residents	48% of 566 residents	65% of 243,192 residents	2% of 599,081 Suffolk county residents	55% of 599,081 residents
Worcester	32% of 554 residents	60% of 32,763 residents	44% of 26,669 residents	40% of 72,620 residents	65% of 18,356 residents	44% of 217 residents	61% of 436,567 residents	1% of 609,989 Worcester county residents	57% of 609,989 residents
Unknown/ Unspecified**	1% of 5,170 AI/AN residents	2% of 384,915 Asian residents	1% of 341,798 Black residents	1% of 569,377 Hispanic residents	1% of 189,348 Multi-race residents	1% of 2,532 NH/PI residents	1% of 3,667,818 White residents	0% of 5,430,832 MA residents	1% of 5,430,832 residents
Massachusetts	39% of 5,170 residents	61% of 384,915 residents	47% of 341,798 residents	42% of 569,377 residents	67% of 189,348 residents	44% of 2,532 residents	63% of 3,667,818 residents	1% of 5,430,832 MA residents	58% of 5,430,832 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 25, 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>	8% of 4,981 residents	29% of 5,822 residents	47% of 6,738 residents	42% of 15,872 residents	44% of 16,831 residents	52% of 17,008 residents	60% of 27,549 residents	71% of 18,602 residents	78% of 18,864 residents	82% of 17,607 residents	84% of 29,124 residents	62% of 179,056 residents
<b>Berkshire</b>	8% of 4,312 residents	34% of 3,915 residents	49% of 4,355 residents	41% of 9,858 residents	48% of 10,719 residents	56% of 10,554 residents	62% of 15,145 residents	71% of 9,093 residents	78% of 8,364 residents	78% of 7,448 residents	81% of 11,704 residents	59% of 95,573 residents
<b>Bristol</b>	8% of 12,753 residents	24% of 16,577 residents	42% of 18,889 residents	38% of 43,813 residents	40% of 48,463 residents	48% of 50,677 residents	56% of 65,154 residents	66% of 33,337 residents	72% of 28,593 residents	75% of 23,563 residents	76% of 36,574 residents	52% of 378,668 residents
<b>Dukes</b>	5% of 704 residents	39% of 761 residents	51% of 704 residents	34% of 1,956 residents	44% of 2,631 residents	54% of 2,270 residents	65% of 2,616 residents	77% of 1,407 residents	81% of 1,416 residents	85% of 1,343 residents	94% of 1,682 residents	59% of 17,492 residents
<b>Essex</b>	10% of 31,025 residents	33% of 30,472 residents	49% of 32,243 residents	43% of 72,021 residents	48% of 81,254 residents	56% of 80,213 residents	63% of 100,046 residents	71% of 51,190 residents	77% of 43,290 residents	78% of 34,691 residents	80% of 54,341 residents	57% of 611,409 residents
<b>Franklin</b>	11% of 2,036 residents	40% of 2,008 residents	49% of 2,364 residents	46% of 5,157 residents	53% of 6,500 residents	61% of 6,109 residents	65% of 8,086 residents	72% of 5,103 residents	78% of 5,268 residents	86% of 4,452 residents	82% of 5,346 residents	63% of 52,498 residents
<b>Hampden</b>	6% of 12,319 residents	25% of 14,398 residents	40% of 15,713 residents	36% of 37,543 residents	41% of 40,436 residents	49% of 39,653 residents	58% of 49,907 residents	67% of 27,022 residents	74% of 23,894 residents	77% of 19,493 residents	77% of 30,308 residents	53% of 310,924 residents
<b>Hampshire</b>	21% of 5,507 residents	49% of 4,797 residents	55% of 5,820 residents	52% of 15,042 residents	60% of 13,445 residents	67% of 13,199 residents	70% of 17,183 residents	76% of 9,967 residents	82% of 9,706 residents	86% of 8,373 residents	86% of 11,052 residents	66% of 114,471 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.

# Individuals who have Received Booster Doses

Data as of July 25, 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	20% of 79,695 residents	46% of 65,579 residents	59% of 64,998 residents	51% of 183,574 residents	60% of 203,197 residents	67% of 179,844 residents	70% of 195,586 residents	76% of 93,890 residents	81% of 78,221 residents	83% of 63,908 residents	83% of 101,904 residents	63% of 1,313,752 residents
Nantucket	7% of 442 residents	29% of 480 residents	39% of 487 residents	26% of 1,640 residents	36% of 2,044 residents	50% of 1,994 residents	59% of 1,886 residents	70% of 820 residents	79% of 681 residents	82% of 520 residents	85% of 635 residents	49% of 11,632 residents
Norfolk	17% of 35,026 residents	43% of 29,594 residents	60% of 30,334 residents	53% of 70,259 residents	59% of 79,360 residents	66% of 76,176 residents	70% of 92,063 residents	76% of 44,755 residents	81% of 37,358 residents	82% of 30,009 residents	83% of 49,155 residents	64% of 575,340 residents
Plymouth	7% of 17,046 residents	29% of 17,902 residents	49% of 20,603 residents	44% of 41,582 residents	47% of 45,334 residents	55% of 48,928 residents	62% of 66,067 residents	70% of 33,678 residents	77% of 29,485 residents	80% of 24,971 residents	81% of 37,338 residents	58% of 383,247 residents
Suffolk	13% of 23,442 residents	30% of 22,251 residents	40% of 26,353 residents	44% of 134,707 residents	56% of 117,009 residents	58% of 76,297 residents	64% of 75,804 residents	72% of 34,890 residents	77% of 29,187 residents	79% of 22,905 residents	81% of 35,461 residents	55% of 599,081 residents
Worcester	9% of 29,003 residents	33% of 30,131 residents	50% of 32,709 residents	44% of 74,931 residents	47% of 81,914 residents	56% of 81,866 residents	63% of 101,499 residents	71% of 51,188 residents	78% of 42,232 residents	80% of 33,539 residents	81% of 50,358 residents	57% of 609,989 residents
Unknown/ Unspecified**	0% of 262,649 MA residents 5-11 Years	0% of 247,716 MA residents 12-15 Years	1% of 270,837 MA residents 16-19 Years	3% of 757,399 MA residents 20-29 Years	2% of 783,121 MA residents 30-39 Years	1% of 706,574 MA residents 40-49 Years	1% of 841,840 MA residents 50-59 Years	1% of 425,895 MA residents 60-64 Years	1% of 363,970 MA residents 65-69 Years	1% of 298,027 MA residents 70-74 Years	1% of 464,565 MA residents 75+ Years	1% of 5,430,832 residents
Massachusetts	14% of 262,649 residents	36% of 247,716 residents	50% of 270,837 residents	45% of 757,399 residents	52% of 783,121 residents	59% of 706,574 residents	64% of 841,840 residents	71% of 425,895 residents	77% of 363,970 residents	79% of 298,027 residents	80% of 464,565 residents	58% of 5,430,832 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.