



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 13, 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 18, 2022

Administered (MIIS)* through Monday, July 18, 2022 (Running totals by day)							
	July 12, 2022	July 13, 2022	July 14, 2022	July 15, 2022	July 16, 2022	July 17, 2022	July 18, 2022
At least one dose -- number of people who received at least one dose of Moderna, Pfizer, or Johnson & Johnson vaccine	6,275,331	6,277,662	6,280,346	6,282,624	6,283,802	6,284,520	6,285,804
Fully vaccinated -- number of people who received a primary series of Moderna, Pfizer, or Johnson & Johnson vaccine**	5,414,728	5,415,629	5,416,736	5,417,946	5,418,977	5,419,724	5,420,516
Booster doses -- number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine***	3,140,059	3,141,706	3,143,375	3,145,113	3,146,110	3,146,713	3,147,699
Second booster doses -- number of people who have received at least 2 booster doses****	604,605	608,354	612,552	617,048	619,677	621,488	623,536
Total Doses Administered (MIIS)	15,096,269	15,104,941	15,114,663	15,124,448	15,130,319	15,134,212	15,139,343

*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.

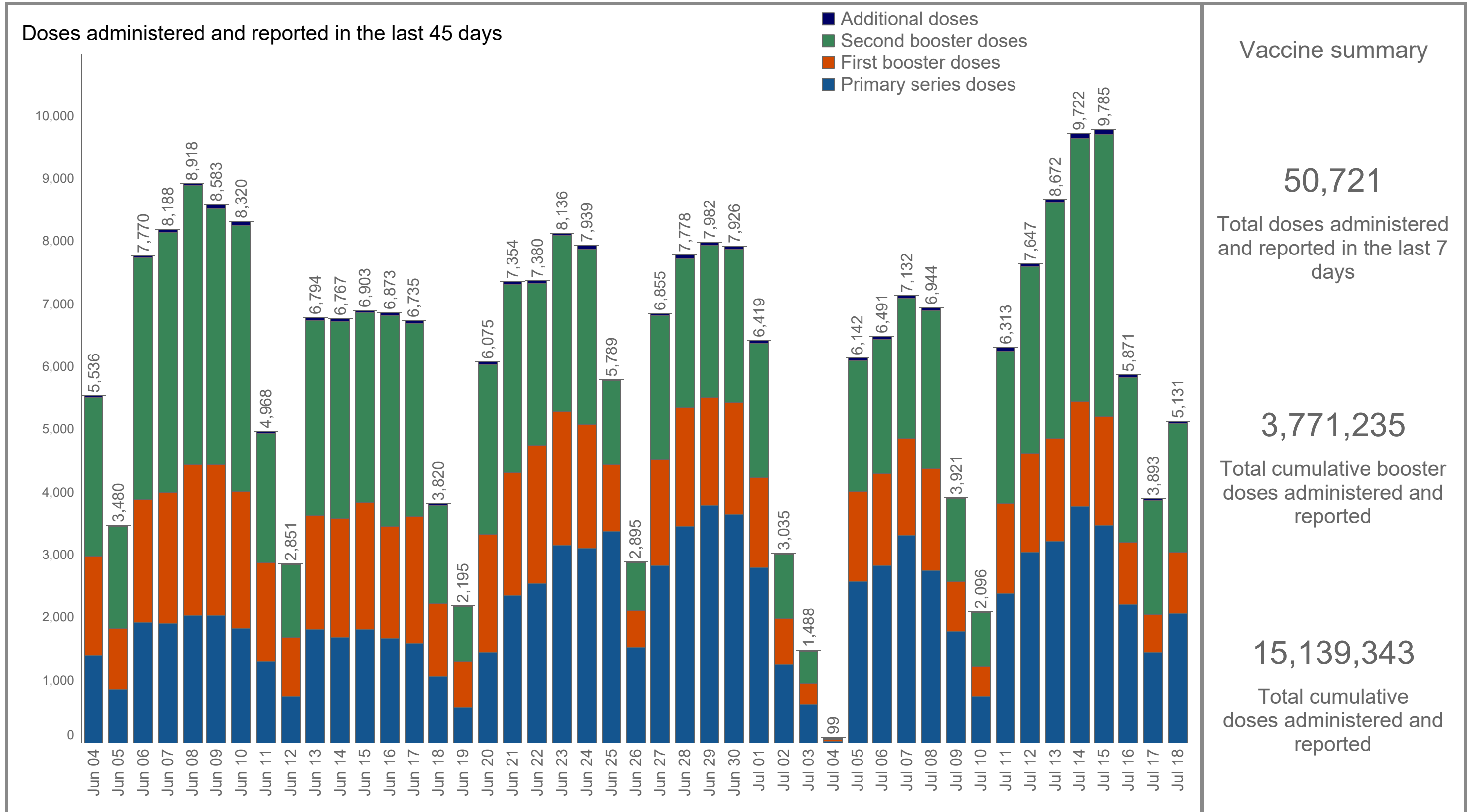
**Fully vaccinated people have 2 doses of Moderna or Pfizer vaccine or 1 dose of Janssen (J&J) vaccine

***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

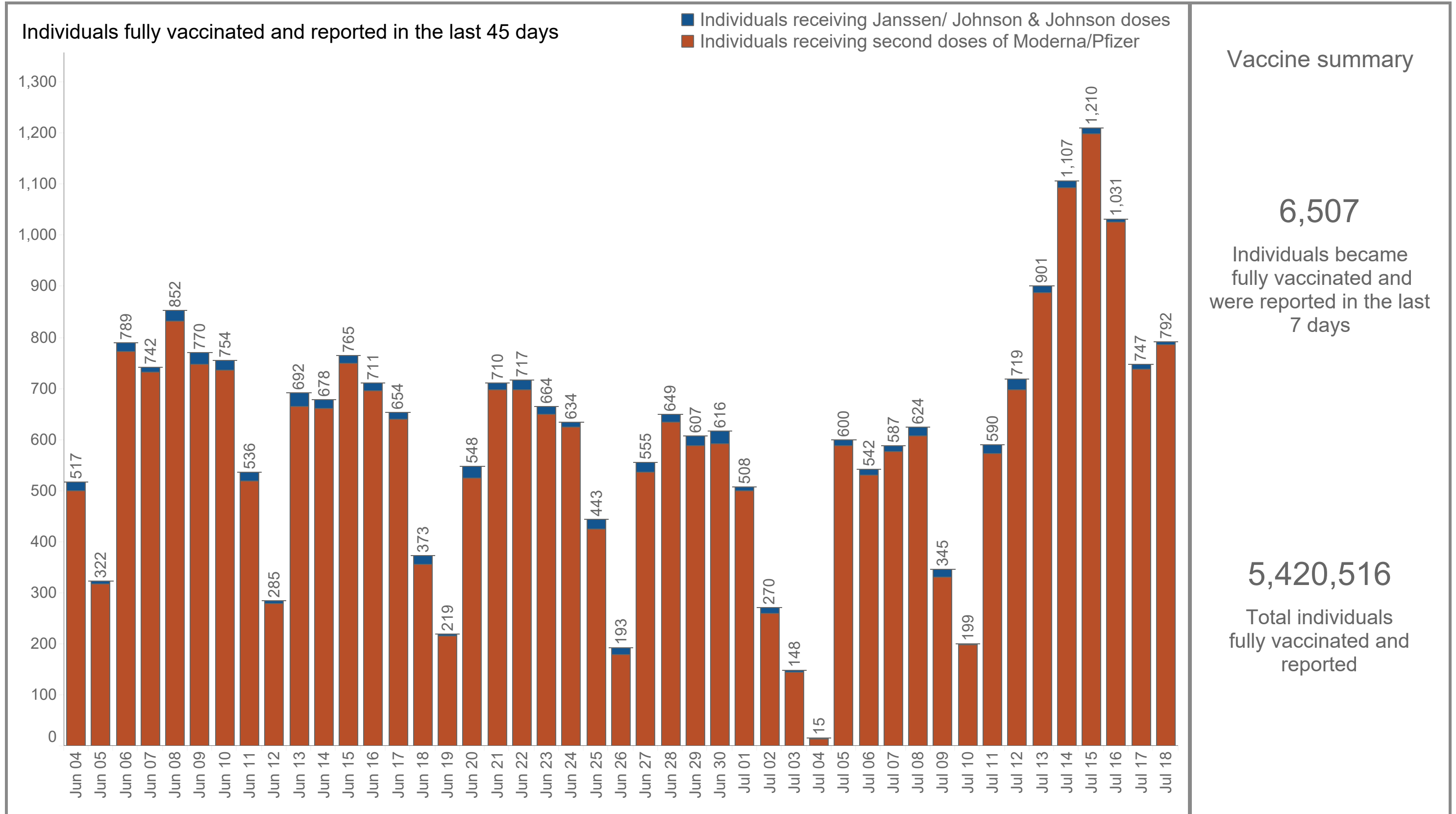
Data as of July 18, 2022



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 18, 2022



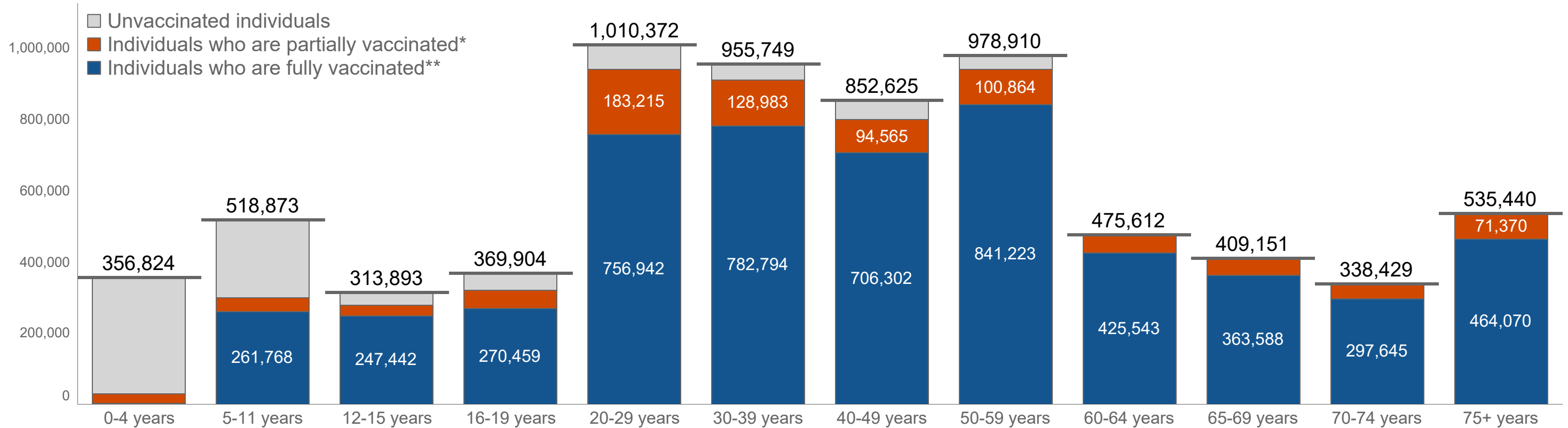
NOTE: Data from MIIS (see "definitions"). Data reflect individuals fully vaccinated (see "definitions"), including with Janssen/Johnson & Johnson beginning on 3/5/21; this is measured as the total number of 2nd doses of Moderna and Pfizer administered and reported plus the total number of Janssen/Johnson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

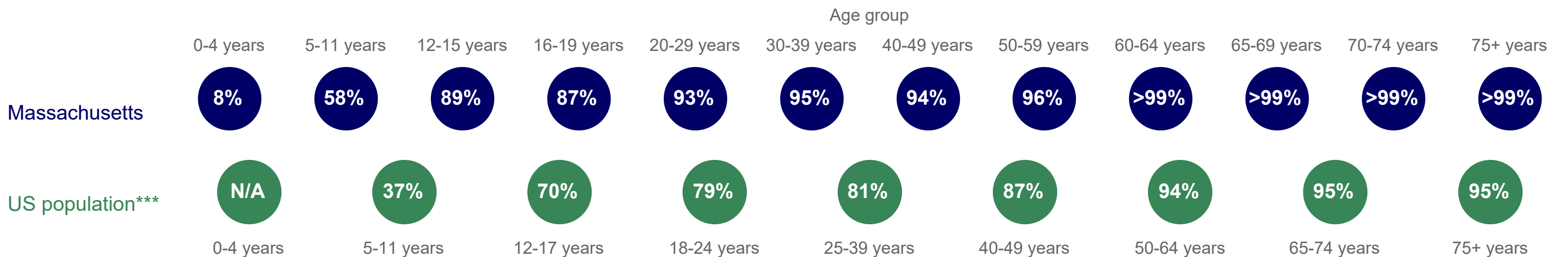
Data as of July 18, 2022

In Massachusetts, 89% 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>

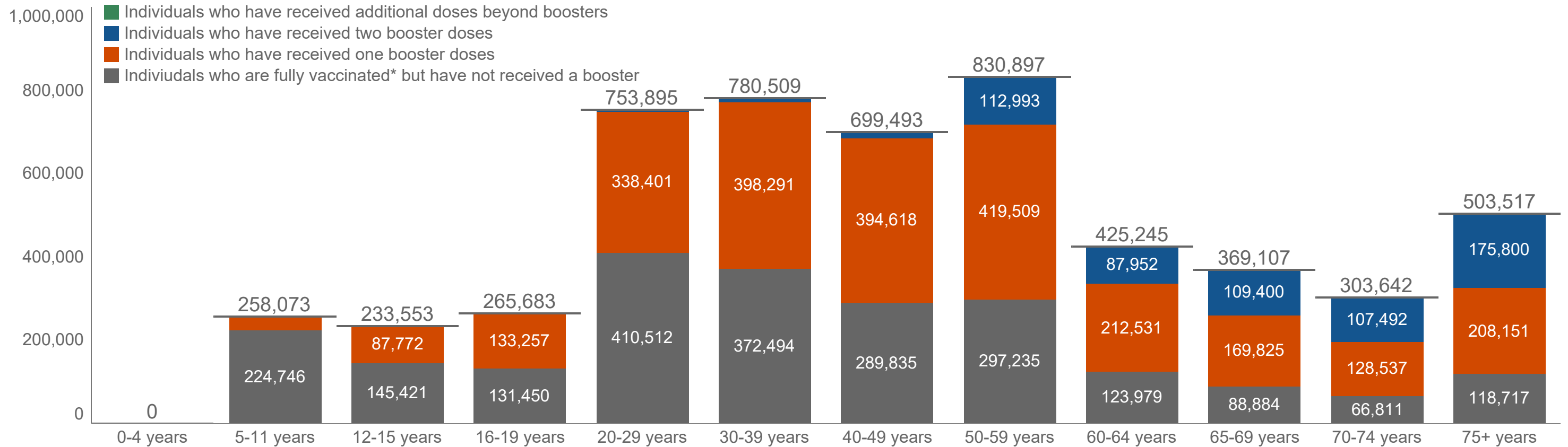
Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2022-07-13://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

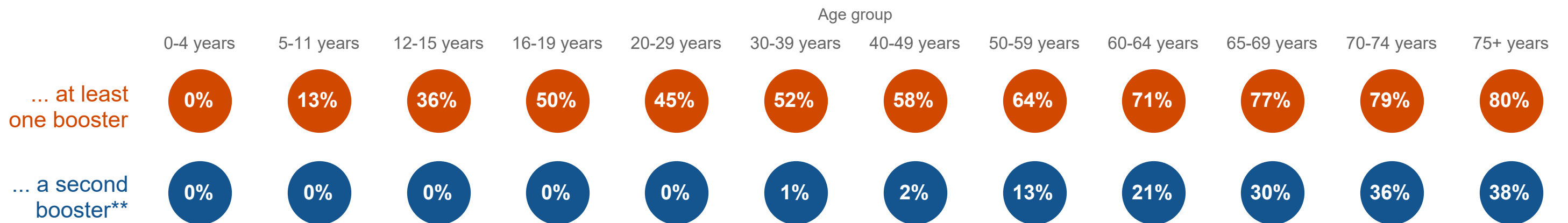
Data as of July 18, 2022

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;2022-07-13. <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 18, 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	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	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	39% 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	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	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	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	52% 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 18, 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	82% of 14,255 residents
Norfolk	52% of 736 residents	73% of 88,772 residents	73% 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	74% 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	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

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** "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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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 18, 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
Barnstable	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	86% of 21,806 residents	89% of 19,831 residents	93% of 31,352 residents	78% of 228,996 residents
Berkshire	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
Bristol	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
Dukes	55% 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
Essex	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
Franklin	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	90% of 5,875 residents	>95% of 4,581 residents	90% of 5,954 residents	74% of 71,029 residents
Hampden	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
Hampshire	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	70% of 162,308 residents

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Individuals Fully Vaccinated

Data as of July 18, 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	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	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	82% of 14,255 residents
Norfolk	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	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	49% of 47,420 residents	84% 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	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**	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 18, 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 517 residents	57% of 2,210 residents	36% of 5,108 residents	47% of 7,406 residents	68% of 3,826 residents	39% of 96 residents	66% of 150,336 residents	1% of 178,836 Barnstable county residents	62% of 178,836 residents
Berkshire	*	51% of 1,398 residents	41% of 2,573 residents	42% of 4,039 residents	60% of 1,976 residents	*	62% of 81,815 residents	1% of 95,483 Berkshire county residents	59% of 95,483 residents
Bristol	33% of 470 residents	51% of 8,725 residents	41% of 17,927 residents	38% of 32,231 residents	59% of 10,152 residents	33% of 173 residents	56% of 292,476 residents	1% of 378,188 Bristol county residents	52% of 378,188 residents
Dukes	51% of 85 residents	63% of 170 residents	42% of 854 residents	40% of 888 residents	62% of 372 residents	*	66% of 13,355 residents	2% of 17,458 Dukes county residents	59% of 17,458 residents
Essex	36% of 349 residents	59% of 21,578 residents	44% of 21,101 residents	40% of 99,772 residents	64% of 15,452 residents	43% of 193 residents	63% of 421,114 residents	1% of 610,493 Essex county residents	57% of 610,493 residents
Franklin	*	54% of 936 residents	46% of 623 residents	49% of 1,764 residents	70% of 953 residents	*	65% of 45,978 residents	1% of 52,438 Franklin county residents	63% of 52,438 residents
Hampden	35% of 371 residents	53% of 8,350 residents	46% of 21,029 residents	39% of 59,184 residents	59% of 7,002 residents	38% of 189 residents	60% of 193,520 residents	2% of 310,520 Hampden county residents	53% of 310,520 residents
Hampshire	57% of 103 residents	58% of 5,156 residents	53% of 2,263 residents	53% of 5,380 residents	71% of 2,524 residents	*	69% of 93,797 residents	1% of 114,295 Hampshire county residents	66% of 114,295 residents

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Individuals who have Received Booster Doses

Data as of July 18, 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 981 residents	63% of 156,398 residents	50% of 59,388 residents	44% of 104,047 residents	71% of 61,199 residents	46% of 508 residents	68% of 867,228 residents	1% of 1,310,309 Middlesex county residents	63% of 1,310,309 residents
Nantucket	*	55% of 209 residents	34% of 969 residents	26% of 1,895 residents	60% of 144 residents	*	61% of 7,452 residents	1% of 11,623 Nantucket county residents	49% of 11,623 residents
Norfolk	39% of 379 residents	65% of 65,109 residents	51% of 36,694 residents	50% of 25,653 residents	70% of 28,365 residents	47% of 232 residents	66% of 397,994 residents	1% of 573,989 Norfolk county residents	63% of 573,989 residents
Plymouth	35% of 295 residents	60% of 5,215 residents	40% of 34,394 residents	44% of 14,779 residents	61% of 14,591 residents	39% of 132 residents	61% of 299,728 residents	1% of 382,716 Plymouth county residents	57% of 382,716 residents
Suffolk	41% of 623 residents	61% of 62,799 residents	51% of 104,438 residents	44% of 127,248 residents	69% of 20,504 residents	48% of 570 residents	65% of 242,629 residents	2% of 597,920 Suffolk county residents	55% of 597,920 residents
Worcester	32% of 550 residents	59% of 32,703 residents	44% of 26,629 residents	40% of 72,557 residents	65% of 18,282 residents	44% of 217 residents	61% of 435,915 residents	1% of 609,089 Worcester county residents	57% of 609,089 residents
Unknown/ Unspecified**	1% of 5,138 AI/AN residents	2% of 384,065 Asian residents	1% of 341,239 Black residents	1% of 568,540 Hispanic residents	1% of 188,573 Multi-race residents	1% of 2,531 NH/PI residents	1% of 3,660,925 White residents	0% of 5,420,516 MA residents	1% of 5,420,516 residents
Massachusetts	38% of 5,138 residents	61% of 384,065 residents	47% of 341,239 residents	42% of 568,540 residents	67% of 188,573 residents	43% of 2,531 residents	63% of 3,660,925 residents	1% of 5,420,516 MA residents	58% of 5,420,516 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 18, 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
Barnstable	7% of 4,971 residents	29% of 5,817 residents	47% of 6,726 residents	42% of 15,863 residents	44% of 16,828 residents	52% of 16,995 residents	60% of 27,520 residents	71% of 18,583 residents	78% of 18,845 residents	82% of 17,589 residents	84% of 29,076 residents	62% of 178,836 residents
Berkshire	8% of 4,305 residents	34% of 3,915 residents	49% of 4,353 residents	41% of 9,854 residents	48% of 10,712 residents	56% of 10,549 residents	62% of 15,144 residents	71% of 9,088 residents	78% of 8,357 residents	78% of 7,436 residents	80% of 11,694 residents	59% of 95,483 residents
Bristol	7% of 12,705 residents	24% of 16,562 residents	42% of 18,862 residents	38% of 43,775 residents	40% of 48,435 residents	48% of 50,665 residents	56% of 65,113 residents	66% of 33,310 residents	72% of 28,583 residents	75% of 23,542 residents	76% of 36,552 residents	52% of 378,188 residents
Dukes	*	38% of 761 residents	51% of 703 residents	34% of 1,952 residents	43% of 2,627 residents	54% of 2,267 residents	65% of 2,613 residents	76% of 1,406 residents	81% of 1,414 residents	84% of 1,343 residents	94% of 1,679 residents	59% of 17,458 residents
Essex	9% of 30,927 residents	32% of 30,447 residents	49% of 32,202 residents	43% of 71,957 residents	48% of 81,222 residents	56% of 80,178 residents	63% of 99,985 residents	71% of 51,163 residents	77% of 43,258 residents	78% of 34,654 residents	80% of 54,289 residents	57% of 610,493 residents
Franklin	11% of 2,032 residents	40% of 2,007 residents	49% of 2,361 residents	45% of 5,157 residents	53% of 6,495 residents	61% of 6,105 residents	65% of 8,083 residents	72% of 5,105 residents	78% of 5,261 residents	85% of 4,453 residents	82% of 5,342 residents	63% of 52,438 residents
Hampden	6% of 12,293 residents	25% of 14,385 residents	40% of 15,683 residents	36% of 37,517 residents	41% of 40,418 residents	49% of 39,630 residents	58% of 49,879 residents	67% of 27,001 residents	74% of 23,879 residents	77% of 19,481 residents	77% of 30,272 residents	53% of 310,520 residents
Hampshire	20% of 5,493 residents	49% of 4,796 residents	55% of 5,820 residents	52% of 15,032 residents	60% of 13,437 residents	67% of 13,199 residents	70% of 17,170 residents	76% of 9,961 residents	82% of 9,699 residents	85% of 8,368 residents	86% of 11,045 residents	66% of 114,295 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 18, 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	19% of 79,433 residents	45% of 65,506 residents	58% of 64,938 residents	51% of 183,482 residents	60% of 203,158 residents	67% of 179,775 residents	70% of 195,471 residents	76% of 93,800 residents	81% of 78,147 residents	82% of 63,819 residents	83% of 101,822 residents	63% of 1,310,309 residents
Nantucket	*	28% of 480 residents	40% of 487 residents	26% of 1,640 residents	36% of 2,044 residents	50% of 1,994 residents	59% of 1,886 residents	69% of 820 residents	79% of 681 residents	82% of 517 residents	85% of 634 residents	49% of 11,623 residents
Norfolk	16% of 34,911 residents	42% of 29,547 residents	59% of 30,298 residents	53% of 70,228 residents	59% of 79,334 residents	66% of 76,138 residents	70% of 92,009 residents	76% of 44,735 residents	81% of 37,304 residents	82% of 29,990 residents	83% of 49,098 residents	63% of 573,989 residents
Plymouth	6% of 16,999 residents	28% of 17,882 residents	49% of 20,554 residents	44% of 41,564 residents	47% of 45,300 residents	55% of 48,910 residents	61% of 66,019 residents	70% of 33,647 residents	77% of 29,462 residents	80% of 24,933 residents	81% of 37,301 residents	57% of 382,716 residents
Suffolk	12% of 23,320 residents	29% of 22,211 residents	39% of 26,298 residents	44% of 134,619 residents	55% of 116,926 residents	58% of 76,280 residents	63% of 75,745 residents	71% of 34,867 residents	77% of 29,166 residents	79% of 22,879 residents	81% of 35,436 residents	55% of 597,920 residents
Worcester	8% of 28,907 residents	33% of 30,105 residents	50% of 32,661 residents	44% of 74,886 residents	47% of 81,871 residents	56% of 81,841 residents	62% of 101,430 residents	71% of 51,154 residents	78% of 42,189 residents	80% of 33,516 residents	81% of 50,318 residents	57% of 609,089 residents
Unknown/ Unspecified**	0% of 261,768 MA residents 5-11 Years	0% of 247,442 MA residents 12-15 Years	1% of 270,459 MA residents 16-19 Years	3% of 756,942 MA residents 20-29 Years	2% of 782,794 MA residents 30-39 Years	1% of 706,302 MA residents 40-49 Years	1% of 841,223 MA residents 50-59 Years	1% of 425,543 MA residents 60-64 Years	1% of 363,588 MA residents 65-69 Years	1% of 297,645 MA residents 70-74 Years	1% of 464,070 MA residents 75+ Years	1% of 5,420,516 residents
Massachusetts	13% of 261,768 residents	36% of 247,442 residents	50% of 270,459 residents	45% of 756,942 residents	52% of 782,794 residents	58% of 706,302 residents	64% of 841,223 residents	71% of 425,543 residents	77% of 363,588 residents	79% of 297,645 residents	80% of 464,070 residents	58% of 5,420,516 residents

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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.