

Children and COVID-19 Vaccinations Trends

**AAP Analysis of Data Posted by the Centers for Disease Control and Prevention
as of August 24, 2022**

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Updated Version of the Vaccination Report

Please note the following changes to the methods in this weekly report:

A. Child Age Groupings:

12-17 year-olds: We are combining data for 12-15 and 16-17 year-olds. COVID-19 vaccines have been available for all in this group since 5.12.21.

5-11 year-olds: This report tracks COVID-19 vaccination rates beginning the week of 11.3.2021, following CDC recommendation for its use for 5-11 year-olds on 11.2.2021.

6 month – 4 year-olds: This report tracks COVID-19 vaccination rates beginning the week of 6.22.2022, following CDC recommendation for its use for under age 5 on 6.18.2022.

B. Data Sources: The data cover the 50 states & District of Columbia. In reports up through 11.10.21, we used 2 different sources from the CDC to provide breakouts by age and geography: “Demographic Trends of People Receiving COVID-19 Vaccinations in the United States” (URL: <https://covid.cdc.gov/covid-data-tracker/#vaccination-demographics-trends>) and “COVID-19 Vaccinations in the United States, Jurisdiction” (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/unsk-b7fc>). To combine ages 12-17, we are using only the jurisdiction file which may create minor shifts in the cumulative trends.

Interested readers should refer to the CDC and individual states where more information might be available.



COVID-19 Vaccine Eligibility: Timeline for Children

The FDA issued the first Emergency Use Authorization (EUA) for use of the Pfizer-BioNTech COVID-19 Vaccine in **people 16 years and older** on 12.11.2020, followed by ACIP recommendations and CDC approval for its use on 12.12.2020. However, the vaccine was not available for the non-elderly general public in most states until sometime in the Spring of 2021. Persons aged 16+ in Massachusetts, for example, started to receive their first COVID shots on 4.19.2021.

The FDA approved the use of the Pfizer-BioNTech COVID-19 Vaccine in **children ages 12 to 15** on an emergency use basis on 5.10.2021, followed by CDC recommendation the same week.

The FDA issued an EUA for the Pfizer-BioNTech COVID-19 Vaccine for **children ages 5 to 11** on 10.29.2021, followed by CDC recommendation on 11.2.2021.

The FDA authorized the use of Moderna and Pfizer-BioNTech COVID-19 vaccines for **children ages 6 months to 4** on 6.15.2022, followed by CDC recommendation on 6.18.2022.



Status of COVID-19 Vaccinations for US Children as of 8.24.2022

Ages 6 months - 4 Years

- ❑ **1.2 million (7%)** have received their initial dose of COVID-19 vaccine.
- ❑ At this time about **16.3 million** have yet to receive their first vaccine. This past week about **77,000** received their initial COVID-19 vaccine dose.
- ❑ Vaccination rates vary highly across states: In **8** states, over 10% have received their initial dose; in **19** states, under 5% have received their first vaccine.

Ages 5-11 Years

- ❑ **10.6 million (37%)** have received their initial dose of COVID-19 vaccine.
- ❑ **8.5 million (30%)** completed the 2-dose vaccination series.
- ❑ At this time about **17.8 million** have yet to receive their initial COVID-19 vaccine dose. This past week about **50,000** received their first vaccine.
- ❑ Vaccination rates vary highly across states: In **8** states, over half have received their initial dose; in **9** states, under a quarter have received their first vaccine.

Ages 12-17 Years

- ❑ **17.5 million (70%)** have received their initial dose of COVID-19 vaccine.
- ❑ **15.0 million (60%)** completed the 2-dose vaccination series.
- ❑ At this time about **7.6 million** have yet to receive their initial COVID-19 vaccine dose. This past week about **25,000** received their first vaccine.
- ❑ Vaccination rates vary highly across states: In **14** states, over 3 quarters have received their initial dose; in **7** states, under half have received their first vaccine.

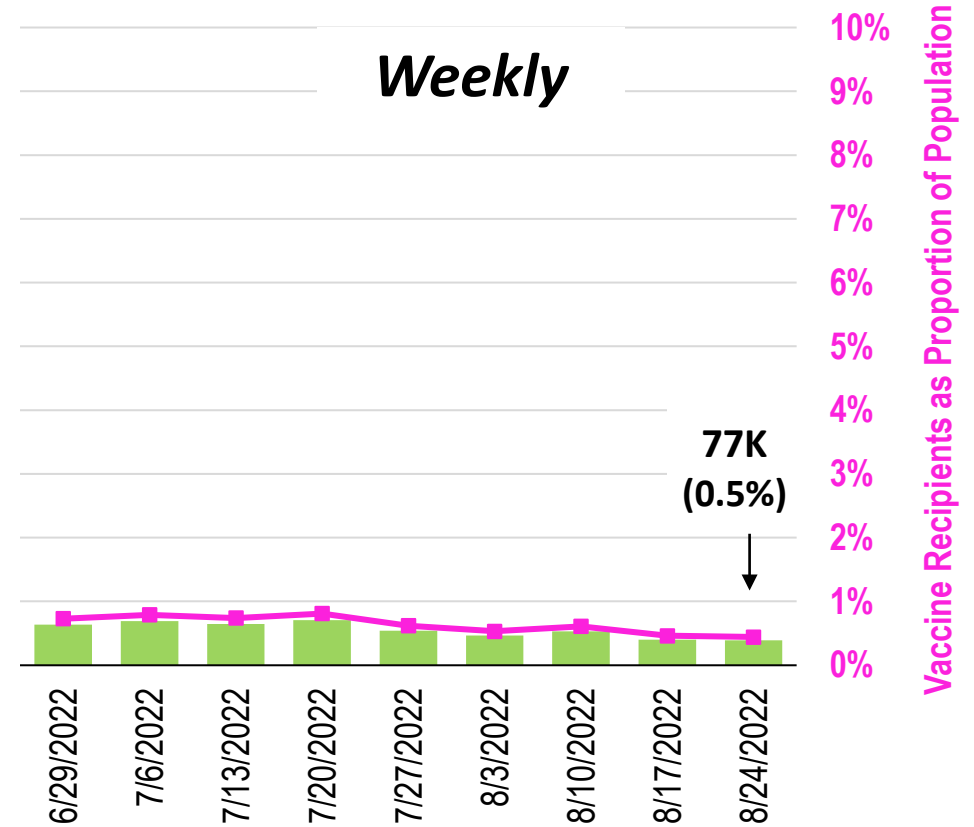
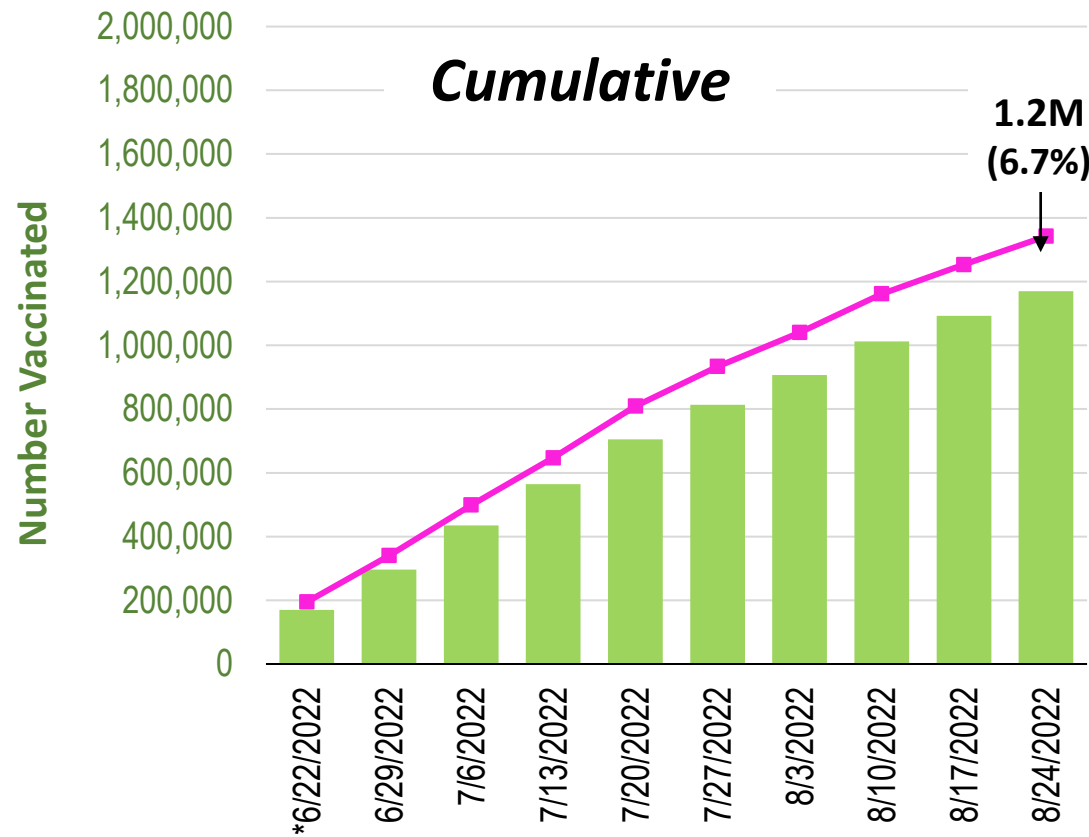
Ages 6 Months - 4 Years

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Number and Proportion of US Infants and Children Ages 6 Months - 4 Years Receiving Initial Dose of COVID-19 Vaccine

6.22.2022 to 8.24.2022

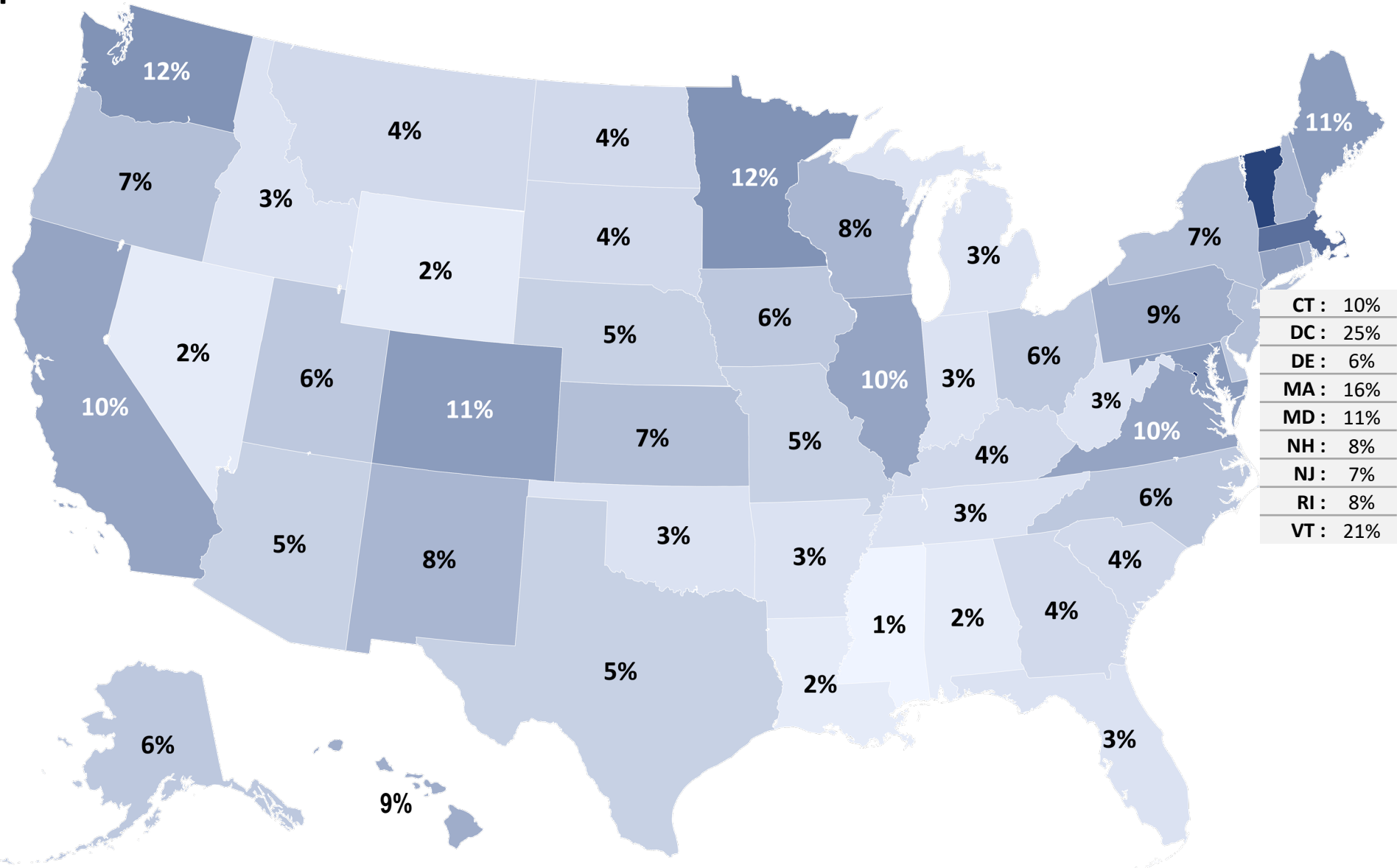


* Includes clinical trial participants and all others under age 5 who received any COVID-19 vaccine prior to CDC recommendations for age group. **Source:** AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/unsk-b7fc>).

Proportion of US Children Ages 6 Months - 4 Years Who Received the Initial Dose of the COVID-19 Vaccine, by State of Residence

Received Initial Dose
1% 25%

as of 8.24.2022



Note: Infants 6 months and older are estimated as half of infant population. Data based on state population size published by US Bureau of Census, June 2021, State Population by Characteristics.

Source: AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/unsk-b7fc>). Check state web sites for additional or more recent information.

Initial Dose Among US Children Ages 6 Months through 4 Years ---3 Week Improvement

State	%Children Having Received At Least One Dose			State (continued)	%Children Having Received At Least One Dose		
	8/3/2022	8/24/2022	Increase by Percentage Point		8/3/2022	8/24/2022	Increase by Percentage Point
50 States + DC	5.2%	6.7%	1.5%	Missouri	4%	5%	1%
Alabama	1%	2%	1%	Montana	3%	4%	1%
Alaska	6%	6%	0%	Nebraska	4%	5%	1%
Arizona	4%	5%	1%	Nevada	2%	2%	0%
Arkansas	3%	3%	0%	New Hampshire	6%	8%	2%
California	9%	10%	1%	New Jersey	5%	7%	2%
Colorado	9%	11%	2%	New Mexico	5%	8%	3%
Connecticut	8%	10%	2%	New York	5%	7%	2%
Delaware	4%	6%	2%	North Carolina	5%	6%	1%
District of Columbia	21%	25%	4%	North Dakota	3%	4%	1%
Florida	2%	3%	1%	Ohio	4%	6%	2%
Georgia	2%	4%	2%	Oklahoma	2%	3%	1%
Hawaii	8%	9%	1%	Oregon	6%	7%	1%
Idaho	2%	3%	1%	Pennsylvania	7%	9%	2%
Illinois	8%	10%	2%	Rhode Island	6%	8%	2%
Indiana	2%	3%	1%	South Carolina	3%	4%	1%
Iowa	4%	6%	2%	South Dakota	3%	4%	1%
Kansas	5%	7%	2%	Tennessee	2%	3%	1%
Kentucky	3%	4%	1%	Texas	2%	5%	3%
Louisiana	1%	2%	1%	Utah	4%	6%	2%
Maine	9%	11%	2%	Vermont	17%	21%	4%
Maryland	9%	11%	2%	Virginia	9%	10%	1%
Massachusetts	14%	16%	2%	Washington	9%	12%	3%
Michigan	2%	3%	1%	West Virginia	2%	3%	1%
Minnesota	10%	12%	2%	Wisconsin	6%	8%	2%
Mississippi	1%	1%	0%	Wyoming	2%	2%	0%

Source: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/uns-kb7fc>). Check state web sites for additional or more recent information.

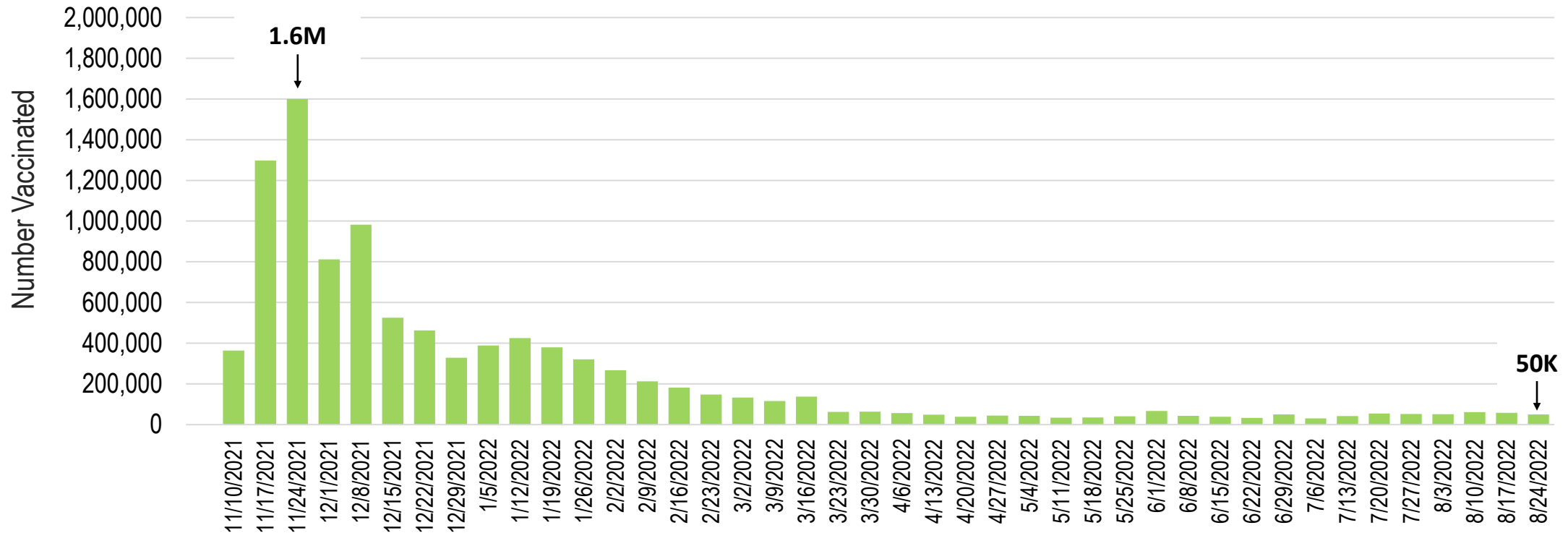
Ages 5-11

Next 6 Slides



Weekly Increase in the Number of US Children Ages 5-11 Receiving Their Initial COVID-19 Vaccination

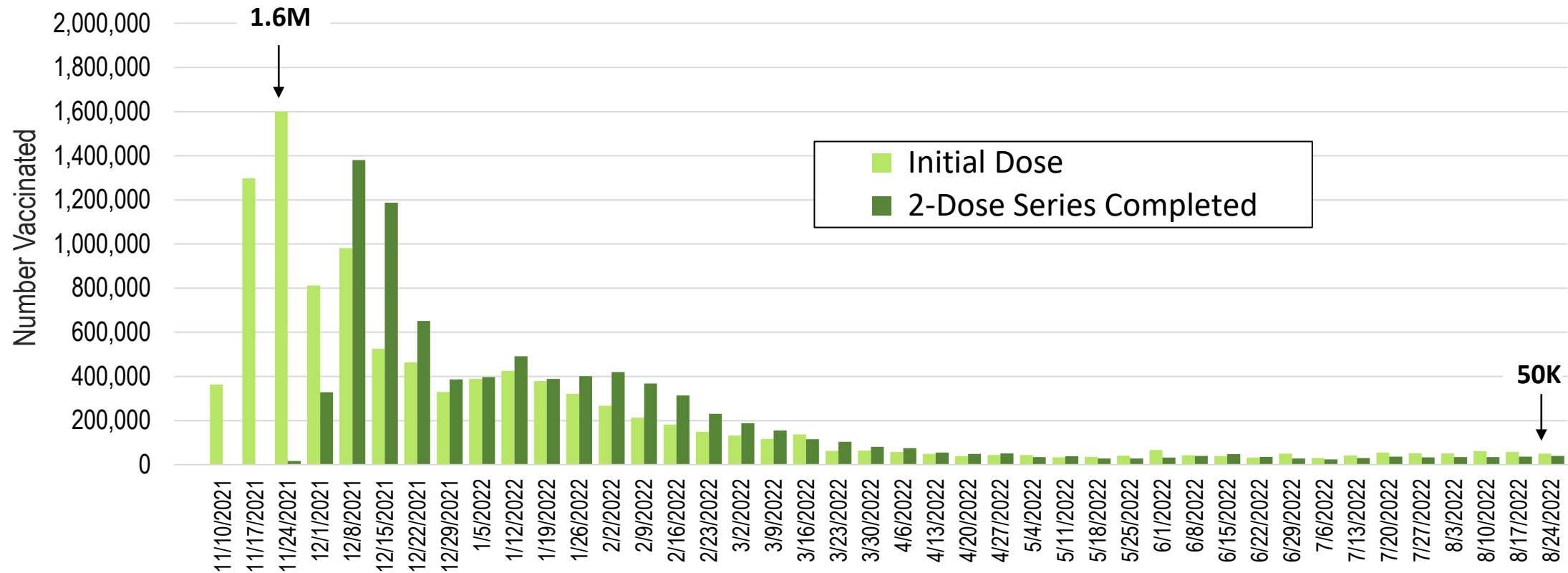
11.10.2021 to 8.24.2022



Source: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisd/uns-k-b7fc>). Check state web sites for additional or more recent information. **Note:** Age information was provided with Idaho data since 1.25.2022. Inclusion of this information added 31K initial-dose recipients to the 5-11 age group nationally as of 2.2.2022.

Weekly Increase in Initial and Completed COVID-19 Vaccination for US Children Ages 5-11

11.10.2021 to 8.24.2022



Source: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/uns-k-b7fc>). Check state web sites for additional or more recent information. **Note:** Age information was provided with Idaho data since 1.25.2022. Inclusion of this information added 31K initial-dose recipients to the 5-11 age group nationally as of 2.2.2022.

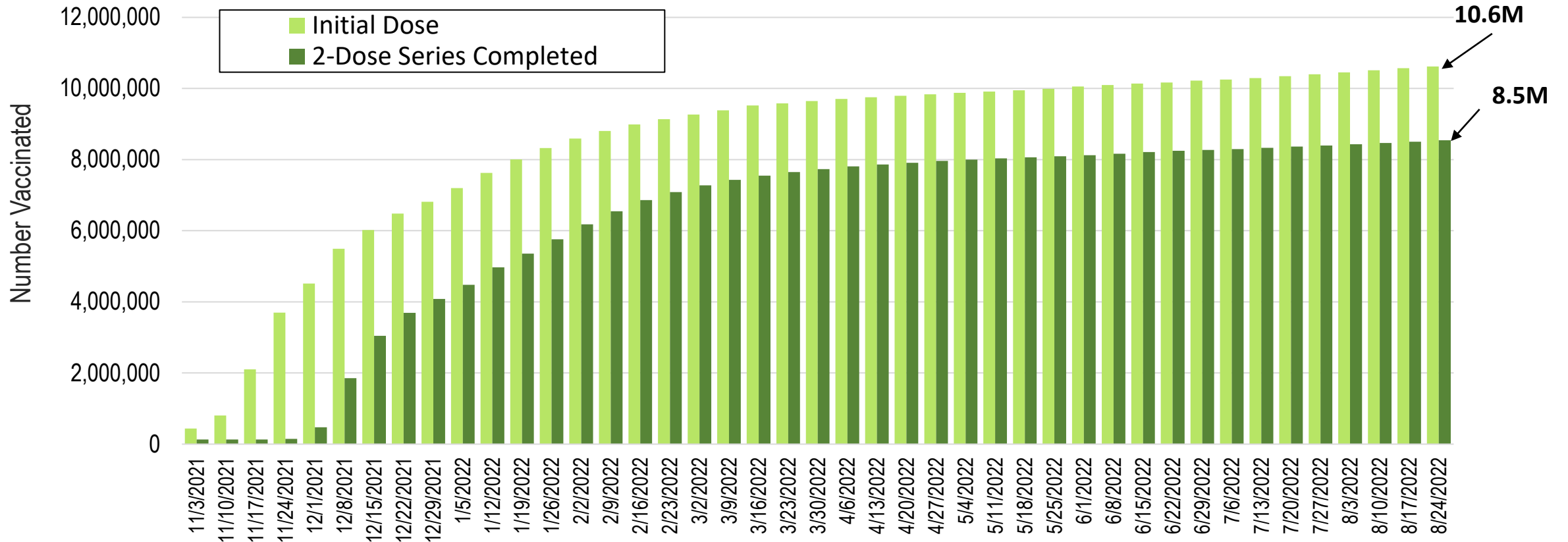
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Cumulative Number of US COVID-19 Vaccine Recipients Ages 5-11

11.3.2021 to 8.24.2022

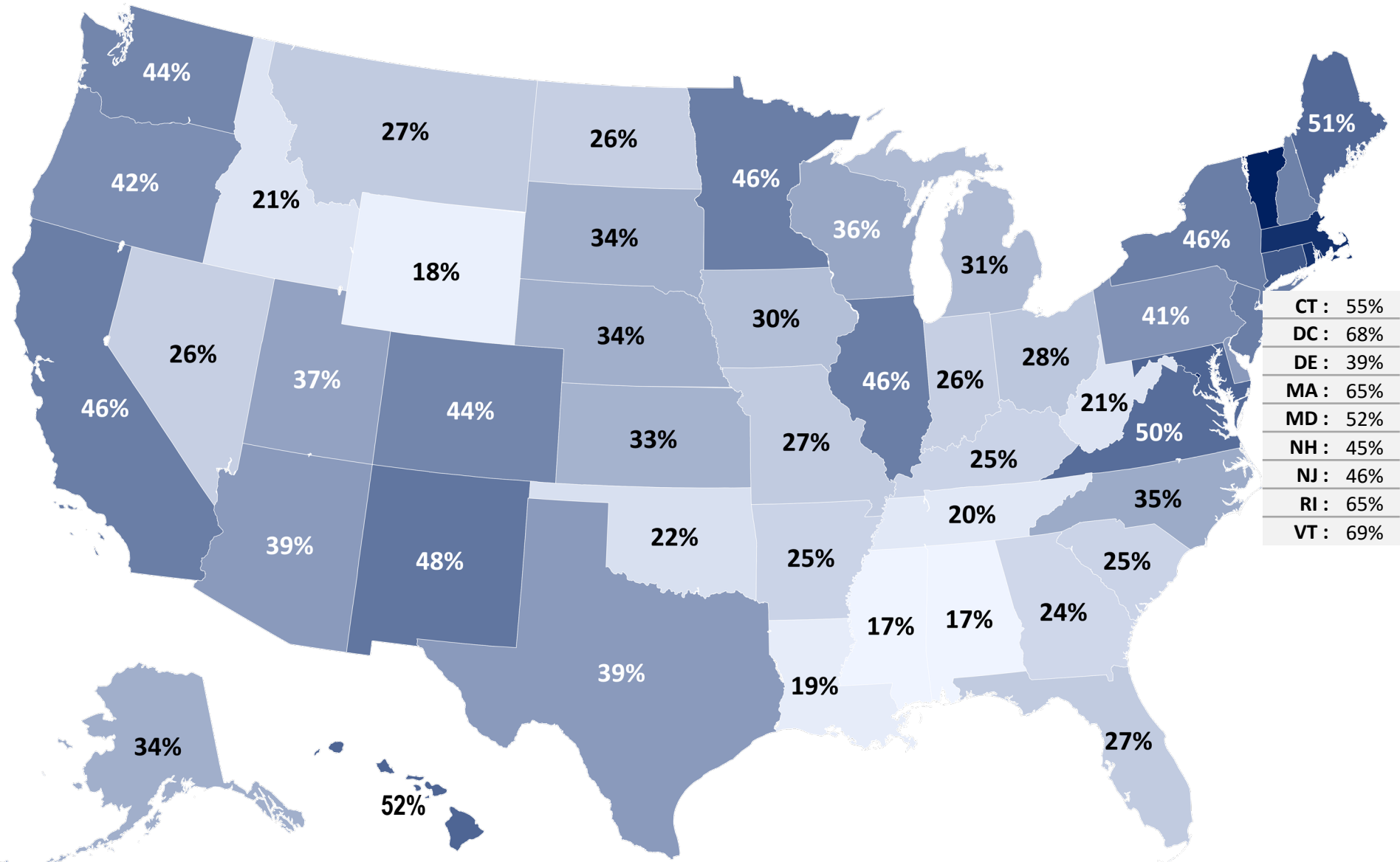


Source: AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdj/uns-k-b7fc>). Check state web sites for additional or more recent information. Check state web sites for additional or more recent information. **Notes:** Age information was provided with Idaho data since 1.25.2022. Inclusion of this information added 31K initial-dose recipients to the 5-11 age group nationally as of 2.2.2022.

Proportion of US Children Ages 5-11 Who Received the Initial Dose of the COVID-19 Vaccine, by State of Residence

Received Initial Dose
17% 69%

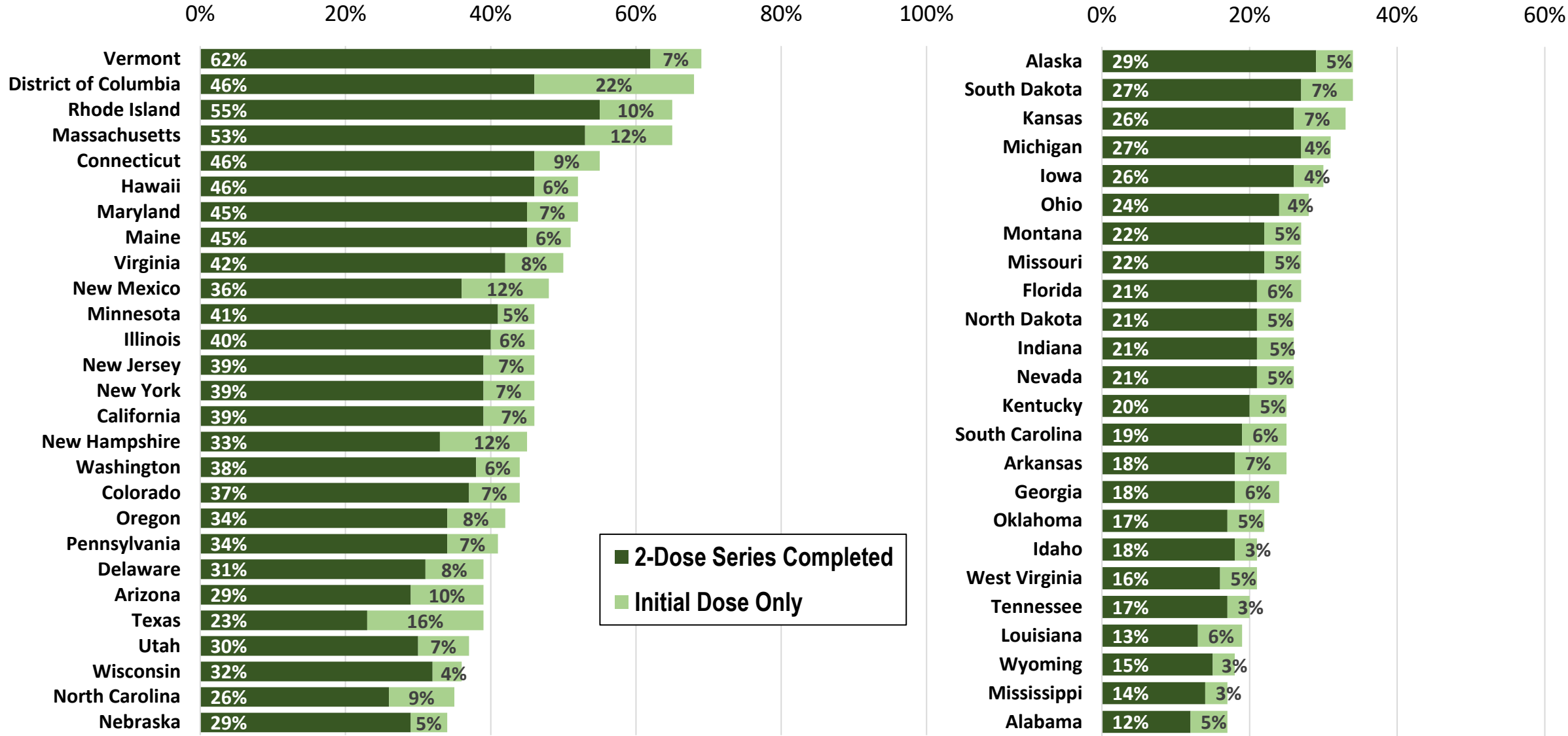
as of 8.24.2022



Source: AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/uns-k-b7fc>). Check state web sites for additional or more recent information.

Proportion of US Children Ages 5-11 Vaccinated Against COVID-19 by State of Residence

as of 8.24.2022



Source: AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdi/unsk-b7fc>). Check state web sites for additional or more recent information.

Initial Dose Among US Children Ages 5-11 ---3 Week Improvement

State	%Children Having Received At Least One Dose			State (continued)	%Children Having Received At Least One Dose		
	8/3/2022	8/24/2022	Increase by Percentage Point		8/3/2022	8/24/2022	Increase by Percentage Point
50 States + DC	36.8%	37.4%	0.6%	Missouri	27%	27%	0%
Alabama	17%	17%	0%	Montana	27%	27%	0%
Alaska	33%	34%	1%	Nebraska	34%	34%	0%
Arizona	38%	39%	1%	Nevada	26%	26%	0%
Arkansas	25%	25%	0%	New Hampshire	45%	45%	0%
California	45%	46%	1%	New Jersey	46%	46%	0%
Colorado	43%	44%	1%	New Mexico	47%	48%	1%
Connecticut	54%	55%	1%	New York	46%	46%	0%
Delaware	38%	39%	1%	North Carolina	35%	35%	0%
District of Columbia	65%	68%	3%	North Dakota	26%	26%	0%
Florida	27%	27%	0%	Ohio	27%	28%	1%
Georgia	23%	24%	1%	Oklahoma	21%	22%	1%
Hawaii	51%	52%	1%	Oregon	42%	42%	0%
Idaho	21%	21%	0%	Pennsylvania	41%	41%	0%
Illinois	45%	46%	1%	Rhode Island	64%	65%	1%
Indiana	26%	26%	0%	South Carolina	24%	25%	1%
Iowa	29%	30%	1%	South Dakota	33%	34%	1%
Kansas	32%	33%	1%	Tennessee	20%	20%	0%
Kentucky	25%	25%	0%	Texas	38%	39%	1%
Louisiana	18%	19%	1%	Utah	37%	37%	0%
Maine	50%	51%	1%	Vermont	69%	69%	0%
Maryland	52%	52%	0%	Virginia	50%	50%	0%
Massachusetts	64%	65%	1%	Washington	43%	44%	1%
Michigan	30%	31%	1%	West Virginia	21%	21%	0%
Minnesota	45%	46%	1%	Wisconsin	35%	36%	1%
Mississippi	17%	17%	0%	Wyoming	17%	18%	1%

Source: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/uns-kb7fc>). Check state web sites for additional or more recent information.

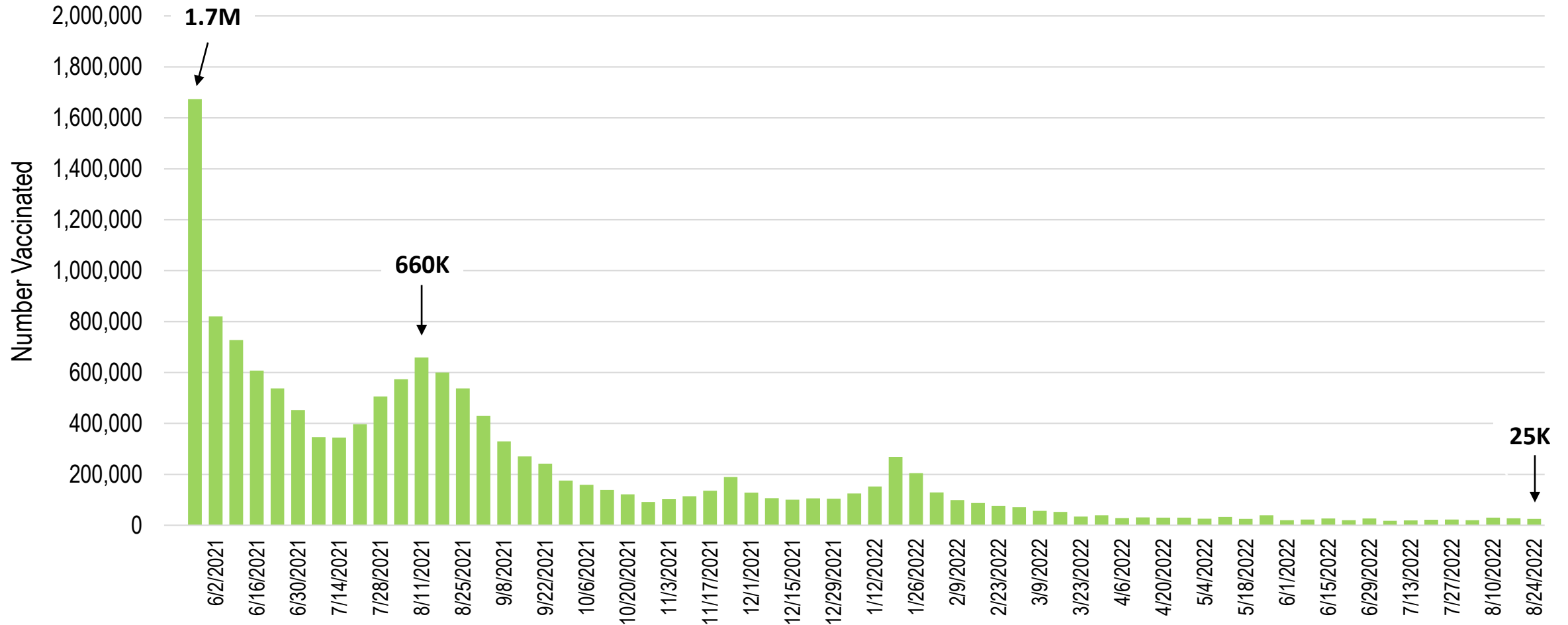
Ages 12-17

Next 6 Slides



Weekly Increase in the Number of US Children Ages 12-17 Receiving Their Initial COVID-19 Vaccination

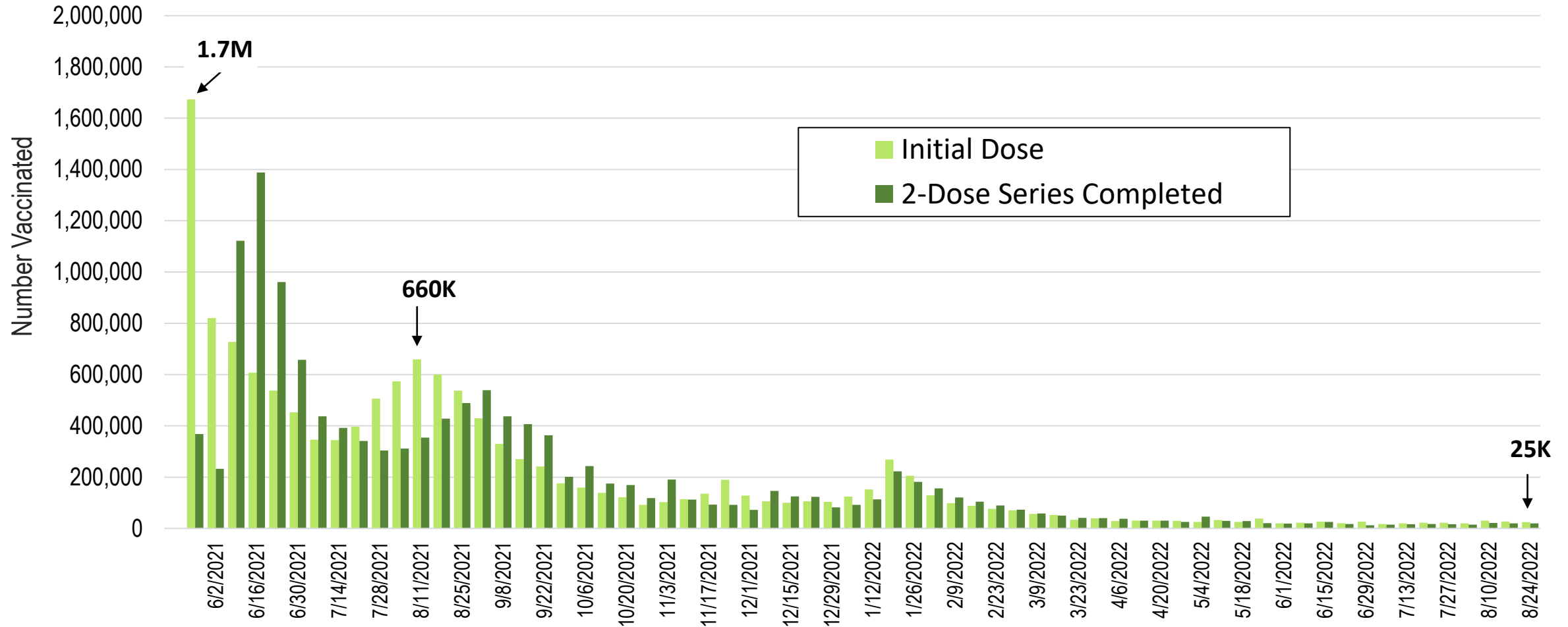
5.26.2021 to 8.24.2022



Source: AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/unsk-b7fc>). Check state web sites for additional or more recent information. **Notes:** Age information was provided with Idaho data since 1.25.2022. Inclusion of this information added 67K initial dose recipients to the 12-17 group nationally as of 2.2.2022.

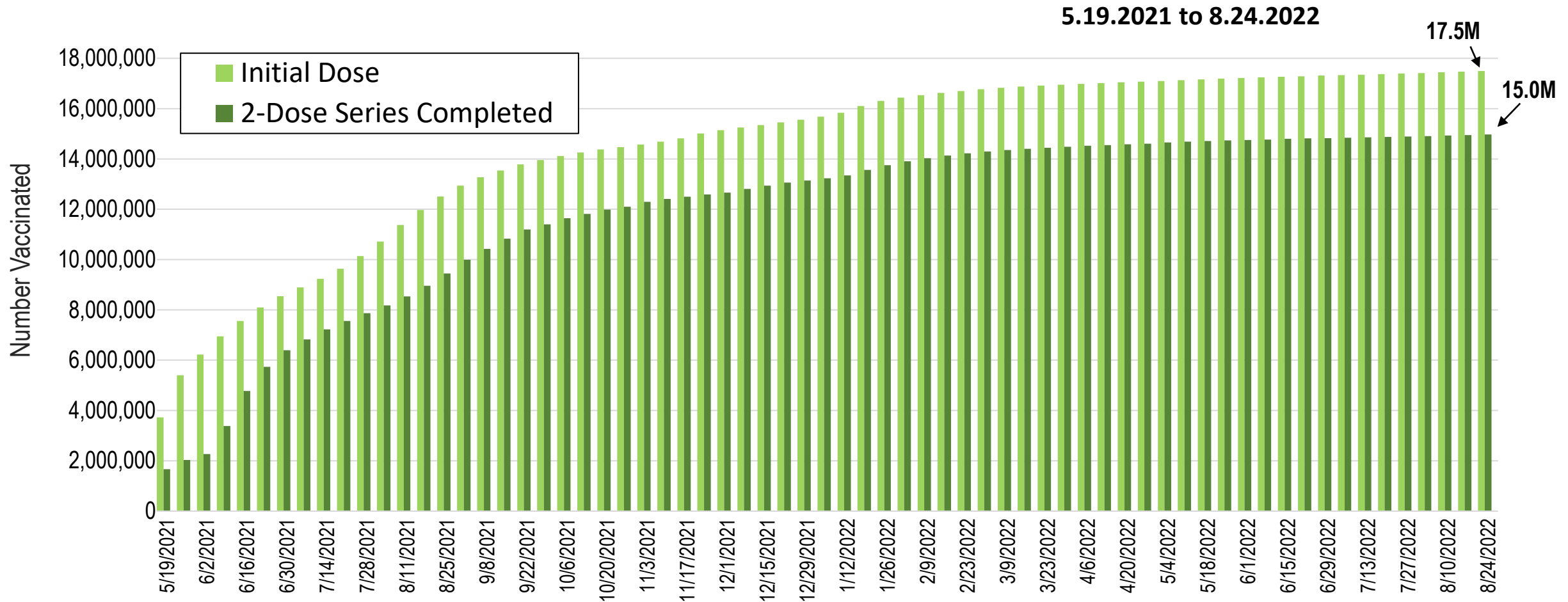
Weekly Increase in Initial and Completed COVID-19 Vaccination for US Children Ages 12-17

5.26.2021 to 8.24.2022



Source: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction>). Check state web sites for additional or more recent information. **Notes:** Age information was provided with Idaho data since 1.25.2022. Inclusion of this information added 67K initial dose recipients to the 12-17 group nationally as of 2.2.2022.

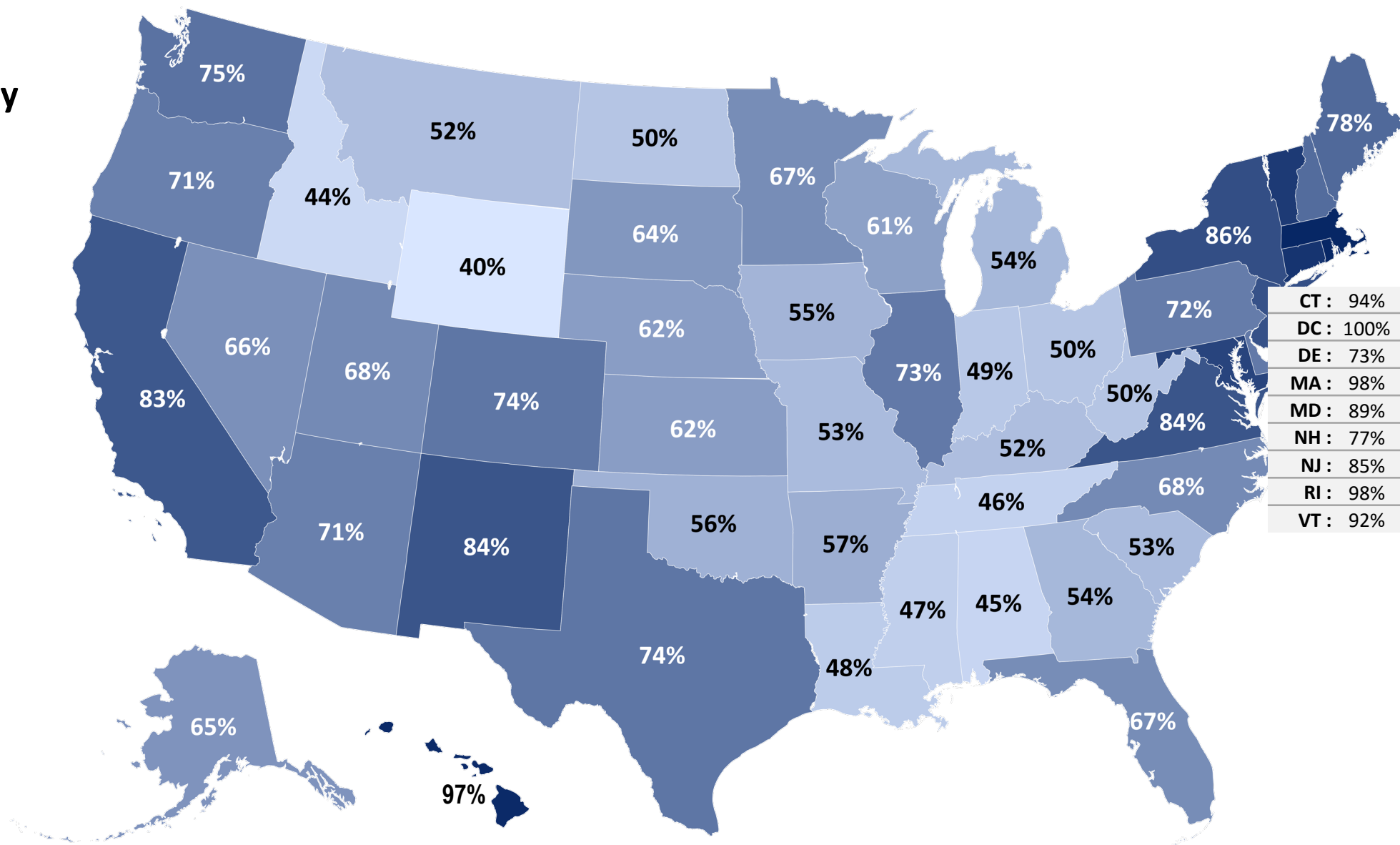
Cumulative Number of US COVID-19 Vaccine Recipients Ages 12-17



Source: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisd/uns-k-b7fc>). Check state web sites for additional or more recent information. **Notes:** Age information was provided with Idaho data since 1.25.2022. Inclusion of this information added 67K initial dose recipients to the 12-17 group nationally as of 2.2.2022.

Proportion of US Children Ages 12-17 Who Received the Initial Dose of the COVID-19 Vaccine, by State of Residence

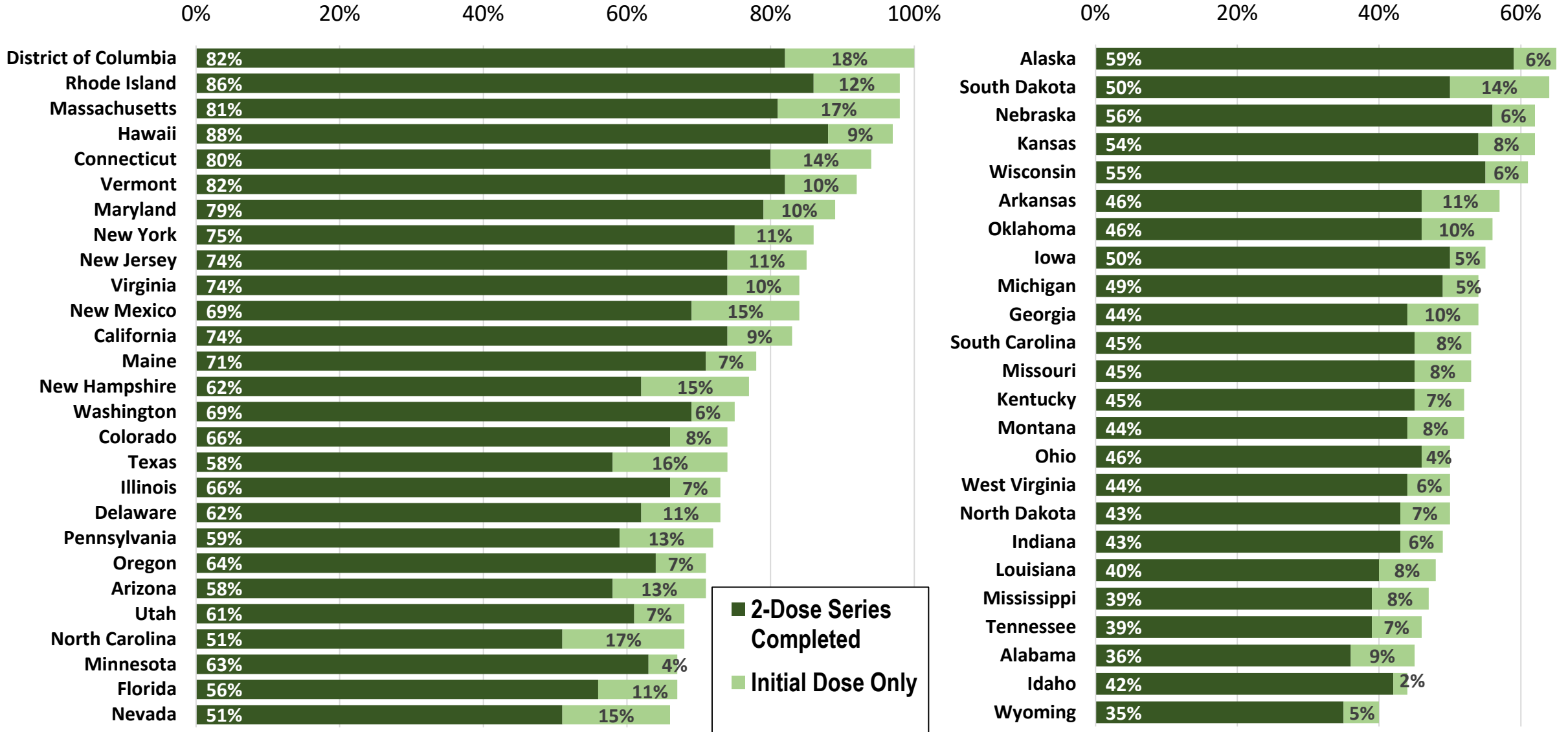
Received Initial Dose as of 8.24.2022
 40% 100%



Source: AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/unsk-b7fc>). Check state web sites for additional or more recent information.

Proportion of US Children Ages 12-17 Vaccinated Against COVID-19 by State of Residence

as of 8.24.2022



Source: AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdi/unsk-b7fc>). Check state web sites for additional or more recent information.

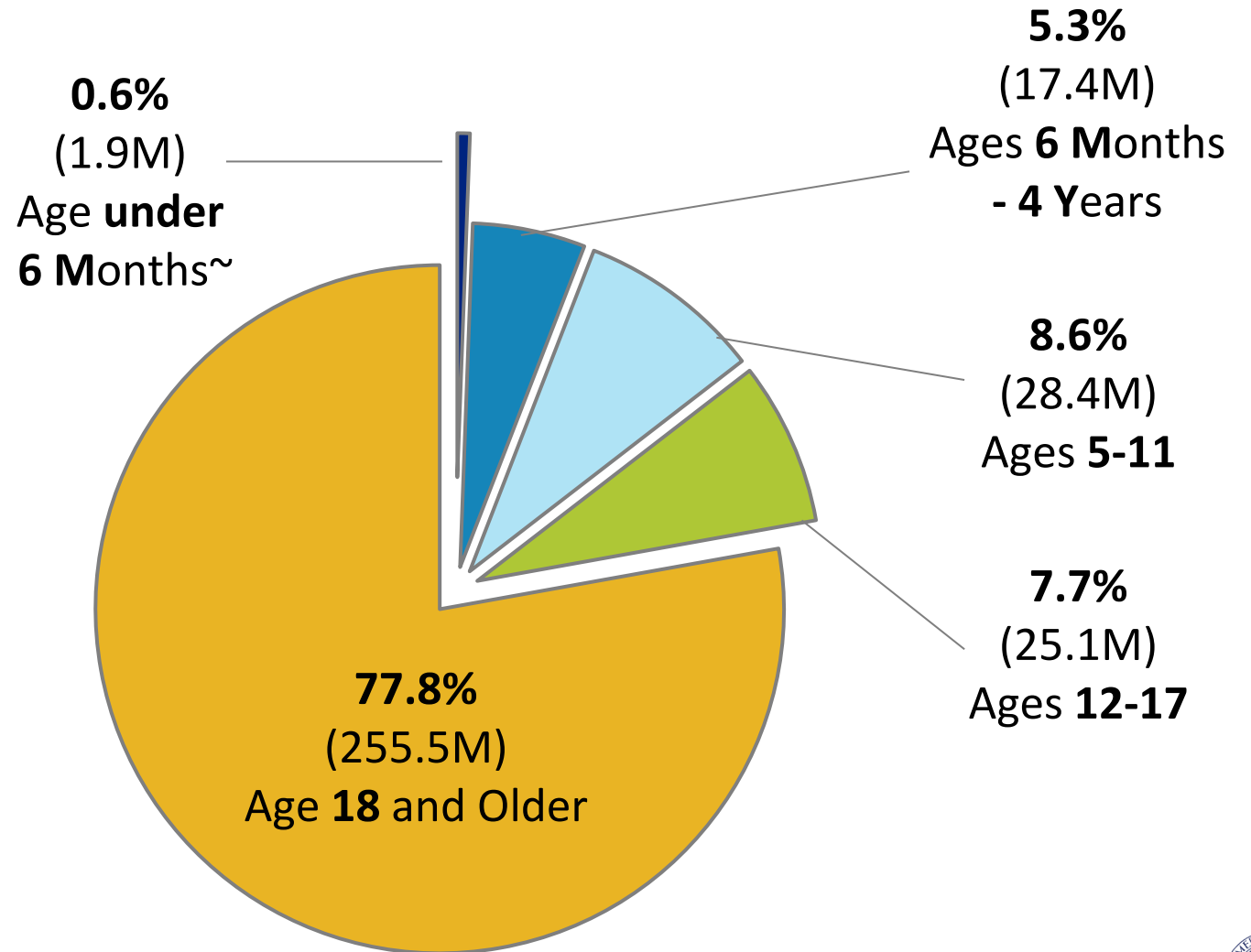
Initial Dose Among US Children Ages 12-17 ---3 Week Improvement

State	%Children Having Received At Least One Dose			State (continued)	%Children Having Received At Least One Dose		
	8/3/2022	8/24/2022	Increase by Percentage Point		8/3/2022	8/24/2022	Increase by Percentage Point
50 States + DC	69.3%	69.6%	0.3%	Missouri	53%	53%	0%
Alabama	45%	45%	0%	Montana	51%	52%	1%
Alaska	64%	65%	1%	Nebraska	61%	62%	1%
Arizona	71%	71%	0%	Nevada	65%	66%	1%
Arkansas	57%	57%	0%	New Hampshire	77%	77%	0%
California	83%	83%	0%	New Jersey	85%	85%	0%
Colorado	73%	74%	1%	New Mexico	83%	84%	1%
Connecticut	94%	94%	0%	New York	86%	86%	0%
Delaware	73%	73%	0%	North Carolina	67%	68%	1%
District of Columbia	100%	100%	--	North Dakota	50%	50%	0%
Florida	67%	67%	0%	Ohio	50%	50%	0%
Georgia	54%	54%	0%	Oklahoma	55%	56%	1%
Hawaii	97%	97%	0%	Oregon	71%	71%	0%
Idaho	44%	44%	0%	Pennsylvania	72%	72%	0%
Illinois	72%	73%	1%	Rhode Island	98%	98%	0%
Indiana	49%	49%	0%	South Carolina	53%	53%	0%
Iowa	55%	55%	0%	South Dakota	64%	64%	0%
Kansas	62%	62%	0%	Tennessee	46%	46%	0%
Kentucky	52%	52%	0%	Texas	74%	74%	0%
Louisiana	48%	48%	0%	Utah	68%	68%	0%
Maine	77%	78%	1%	Vermont	92%	92%	0%
Maryland	88%	89%	1%	Virginia	83%	84%	1%
Massachusetts	98%	98%	0%	Washington	75%	75%	0%
Michigan	53%	54%	1%	West Virginia	50%	50%	0%
Minnesota	66%	67%	1%	Wisconsin	61%	61%	0%
Mississippi	47%	47%	0%	Wyoming	40%	40%	0%

Source: AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/uns-kb7fc>). Check state web sites for additional or more recent information.

US Population by Age Group, 2020

In 2020, children (72.8M under Age 18) made up **22.2%** of the total US population



~ Age under 6 months are estimated as half of infant population. **Source:** AAP analysis of report published by US Bureau of Census on June 17, 2021: State Population by Characteristics: 2010-2020. Single Year of Age and Sex for the Civilian Population. [Link: State Population by Characteristics: 2010-2020 (census.gov)]



Data Sources and Methods

This report includes US COVID-19 vaccine child recipients in the 50 states and the District of Columbia based on provisional data released by the CDC in a data series titled “COVID-19 Vaccinations in the United States, Jurisdiction.” (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdi/unsk-b7fc>).

Cumulative trends and weekly changes are updated weekly as the CDC revises and updates its data series. Previously-reported cumulative vaccine recipient counts higher than revised counts are replaced by the latter in this report. Sporadic vaccinations prior to CDC recommendations for all pediatric age groups are included in the cumulative counts although not shown by week in the charts. Recipients under age 5 are calculated by subtracting (a) recipients 5 or older, and (b) recipients without age data (from separate file provided by the CDC), from total recipient counts.

Individual states may have additional or more recent information on their web sites. State population totals are based on 2020 population projections published by the US Census Bureau (URL: <https://www.census.gov/programs-surveys/popest/technical-documentation/research/evaluation-estimates/2020-evaluation-estimates/2010s-state-detail.html>).



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