

# Children and COVID-19 Vaccinations Trends

**AAP Analysis of Data Posted by the Centers for Disease Control and Prevention  
as of September 14, 2022**

American Academy of Pediatrics  
DEDICATED TO THE HEALTH OF ALL CHILDREN®



# 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/uns-k-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 9.14.2022

## Ages 6 months - 4 Years

- ❑ **1.3 million (8%)** have received their initial dose of COVID-19 vaccine.
- ❑ At this time about **16.1 million** have yet to receive their first vaccine. This past week about **52,000** received their initial COVID-19 vaccine dose.
- ❑ Vaccination rates vary highly across states: In **12** states, over 10% have received their initial dose; in **15** states, under 5% have received their first vaccine.

## Ages 5-11 Years

- ❑ **10.7 million (38%)** have received their initial dose of COVID-19 vaccine.
- ❑ **8.7 million (31%)** completed the 2-dose vaccination series.
- ❑ At this time about **17.7 million** have yet to receive their initial COVID-19 vaccine dose. This past week about **27,000** received their first vaccine.
- ❑ Vaccination rates vary highly across states: In **9** states, over half have received their initial dose; in **21** states, under a third have received their first vaccine.

## Ages 12-17 Years

- ❑ **17.6 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 **17,000** received their first vaccine.
- ❑ Vaccination rates vary highly across states: In **15** states, over 3 quarters have received their initial dose; in **7** states, under half have received their first vaccine.

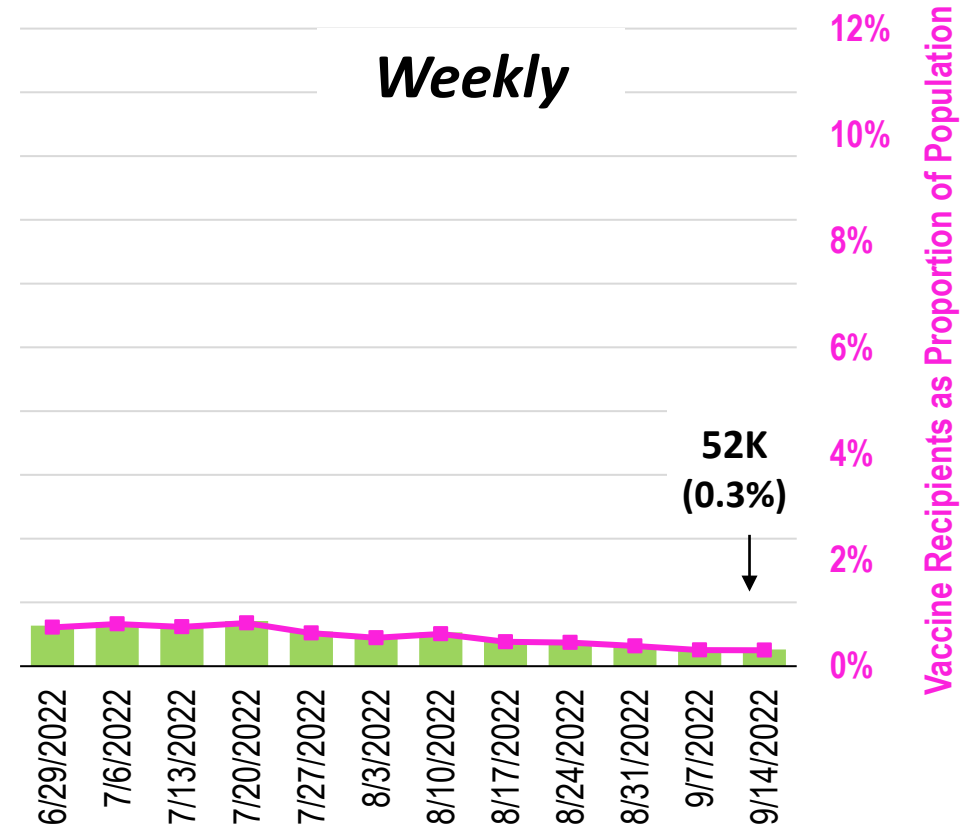
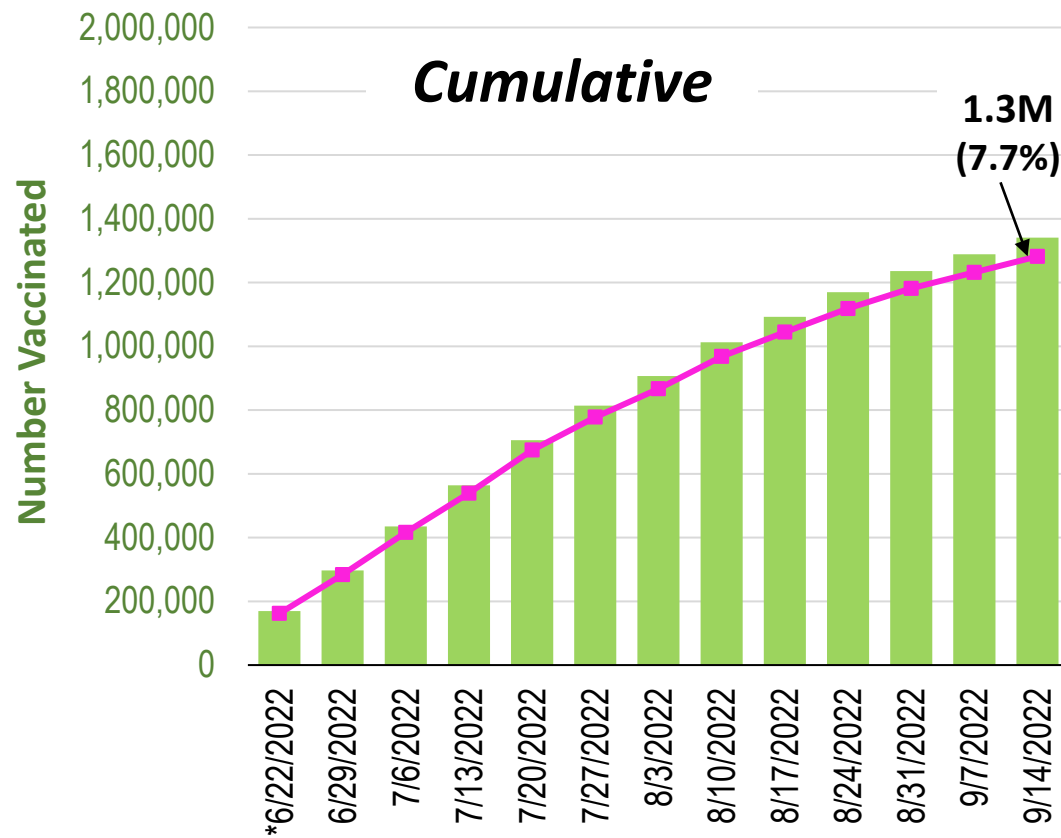
# Ages 6 Months - 4 Years

*Next 3 Slides*



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

6.22.2022 to 9.14.2022



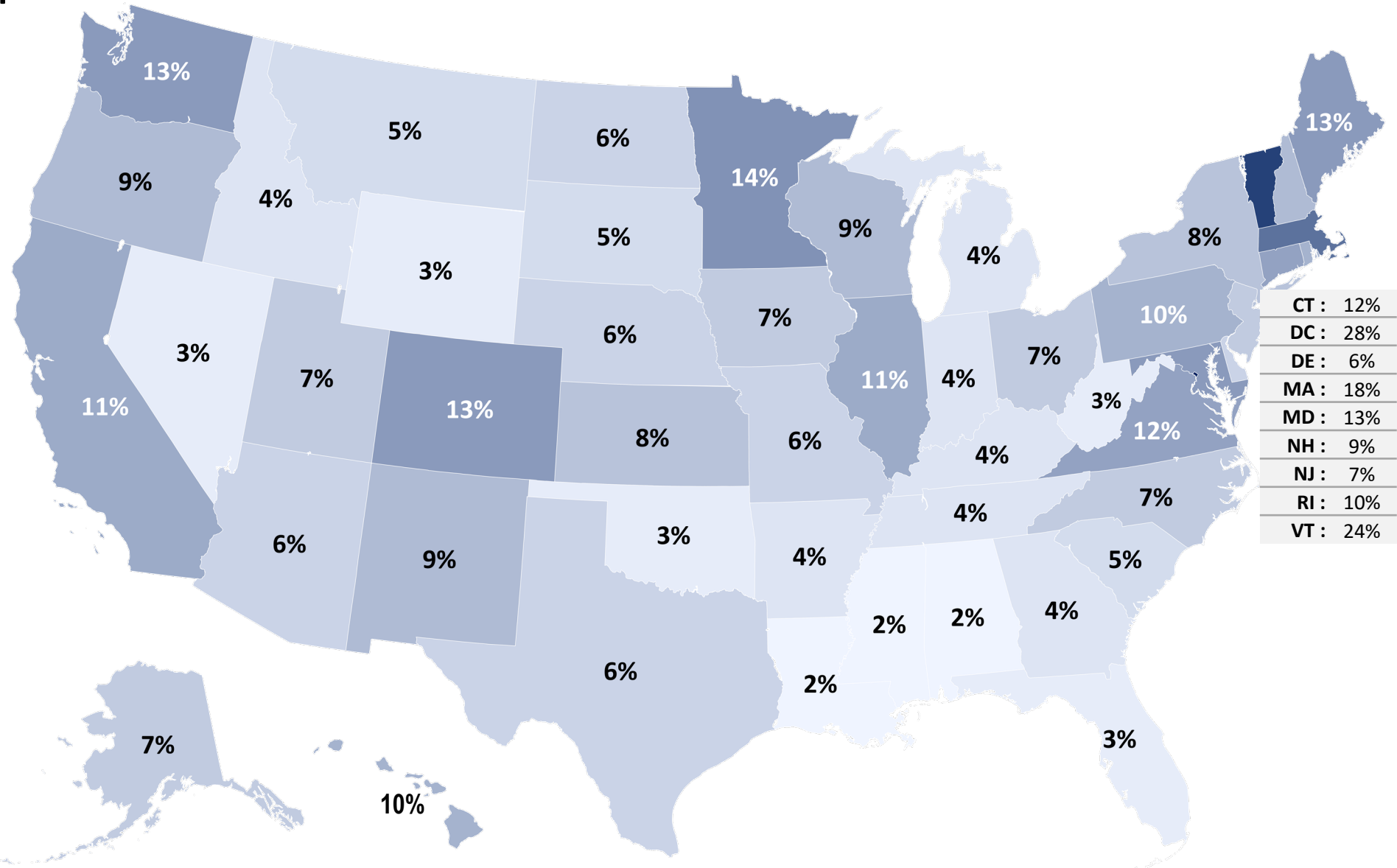
\* Includes clinical trial participants and all others under age 5 who received any COVID-19 vaccine prior to CDC recommendations for age group. **Source:** AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-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



as of 9.14.2022



**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		
	8/24/2022	9/14/2022	Increase by Percentage Point		8/24/2022	9/14/2022	Increase by Percentage Point
<b>50 States + DC</b>	<b>6.7%</b>	<b>7.7%</b>	<b>1.0%</b>	<b>Missouri</b>	5%	6%	1%
Alabama	2%	2%	0%	Montana	4%	5%	1%
Alaska	6%	7%	1%	Nebraska	5%	6%	1%
Arizona	5%	6%	1%	Nevada	2%	3%	1%
Arkansas	3%	4%	1%	New Hampshire	8%	9%	1%
California	10%	11%	1%	New Jersey	7%	7%	0%
Colorado	11%	13%	2%	New Mexico	8%	9%	1%
Connecticut	10%	12%	2%	New York	7%	8%	1%
Delaware	6%	6%	0%	North Carolina	6%	7%	1%
District of Columbia	25%	28%	3%	North Dakota	4%	6%	2%
Florida	3%	3%	0%	Ohio	6%	7%	1%
Georgia	4%	4%	0%	Oklahoma	3%	3%	0%
Hawaii	9%	10%	1%	Oregon	7%	9%	2%
Idaho	3%	4%	1%	Pennsylvania	9%	10%	1%
Illinois	10%	11%	1%	Rhode Island	8%	10%	2%
Indiana	3%	4%	1%	South Carolina	4%	5%	1%
Iowa	6%	7%	1%	South Dakota	4%	5%	1%
Kansas	7%	8%	1%	Tennessee	3%	4%	1%
Kentucky	4%	4%	0%	Texas	5%	6%	1%
Louisiana	2%	2%	0%	Utah	6%	7%	1%
Maine	11%	13%	2%	Vermont	21%	24%	3%
Maryland	11%	13%	2%	Virginia	10%	12%	2%
Massachusetts	16%	18%	2%	Washington	12%	13%	1%
Michigan	3%	4%	1%	West Virginia	3%	3%	0%
Minnesota	12%	14%	2%	Wisconsin	8%	9%	1%
Mississippi	1%	2%	1%	Wyoming	2%	3%	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.



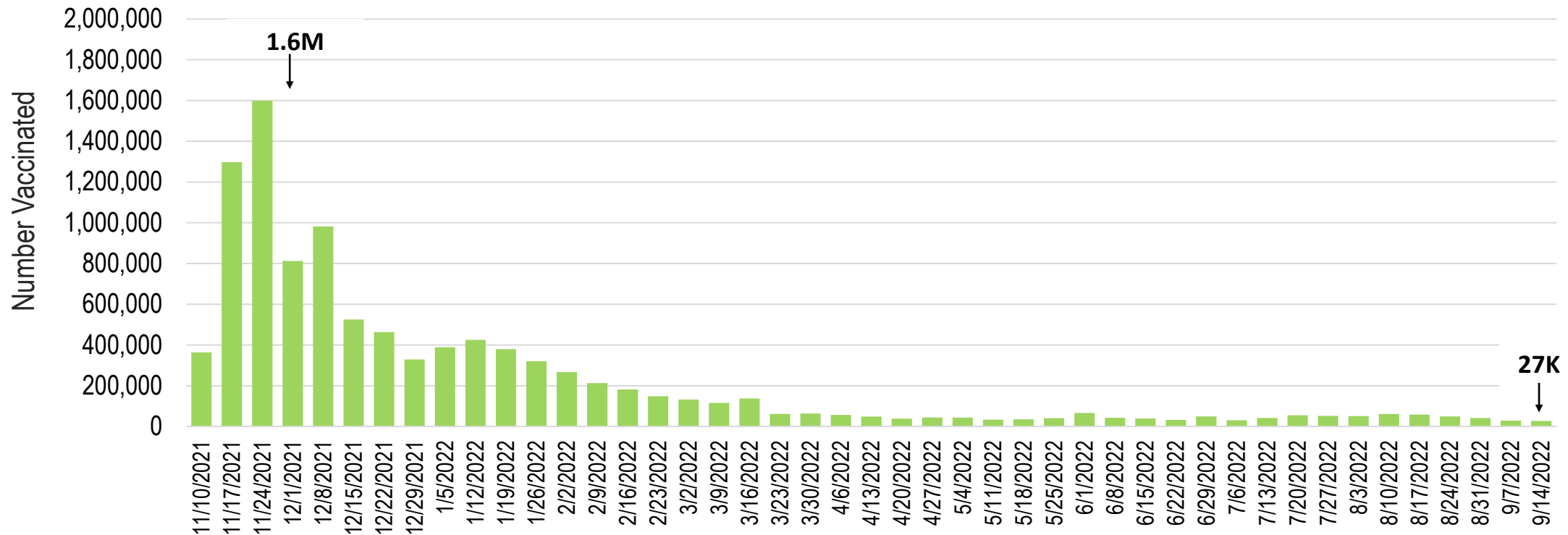
# Ages 5-11

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

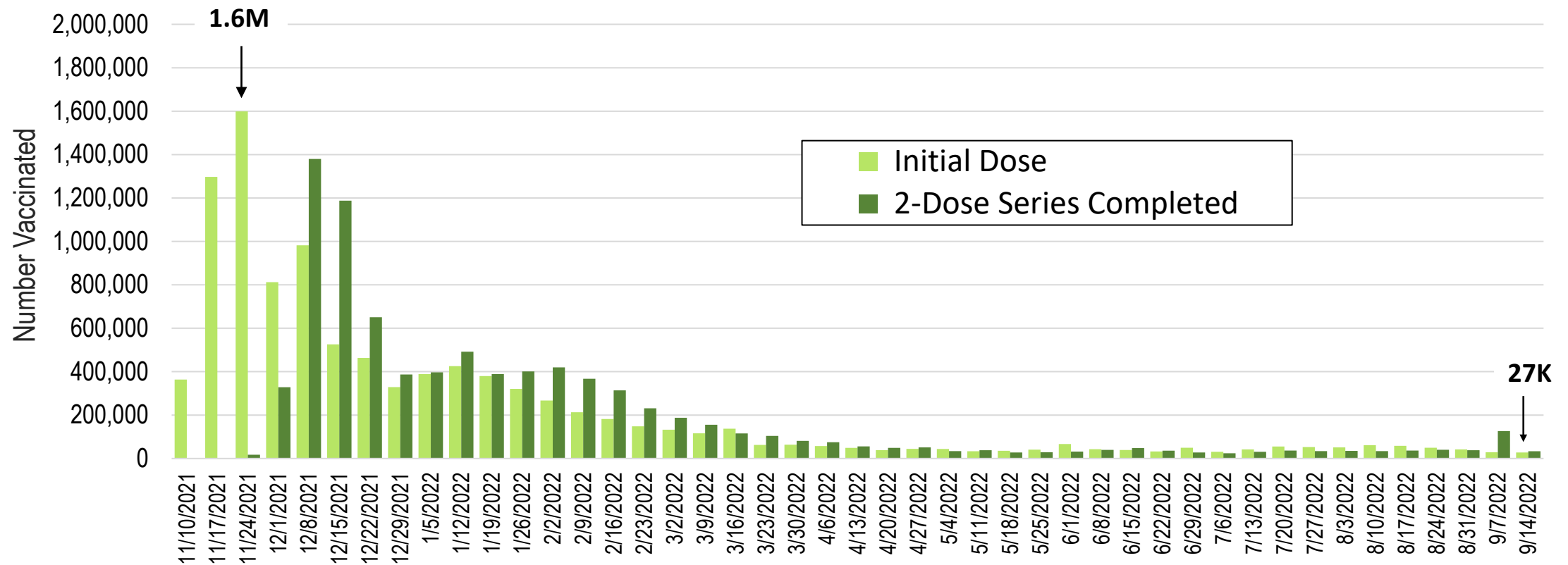
11.10.2021 to 9.14.2022



**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 9.14.2022

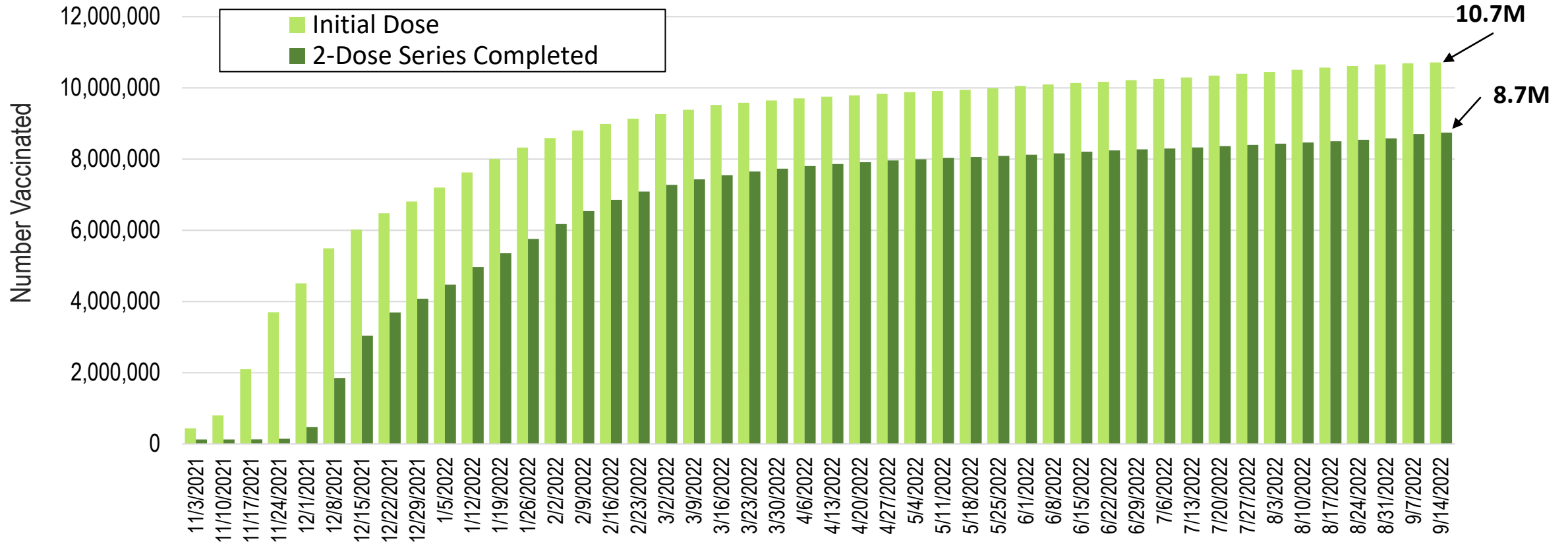


**Source:** AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/uns-k-b7fc> ). Check state web sites for additional or more recent information.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



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

11.3.2021 to 9.14.2022

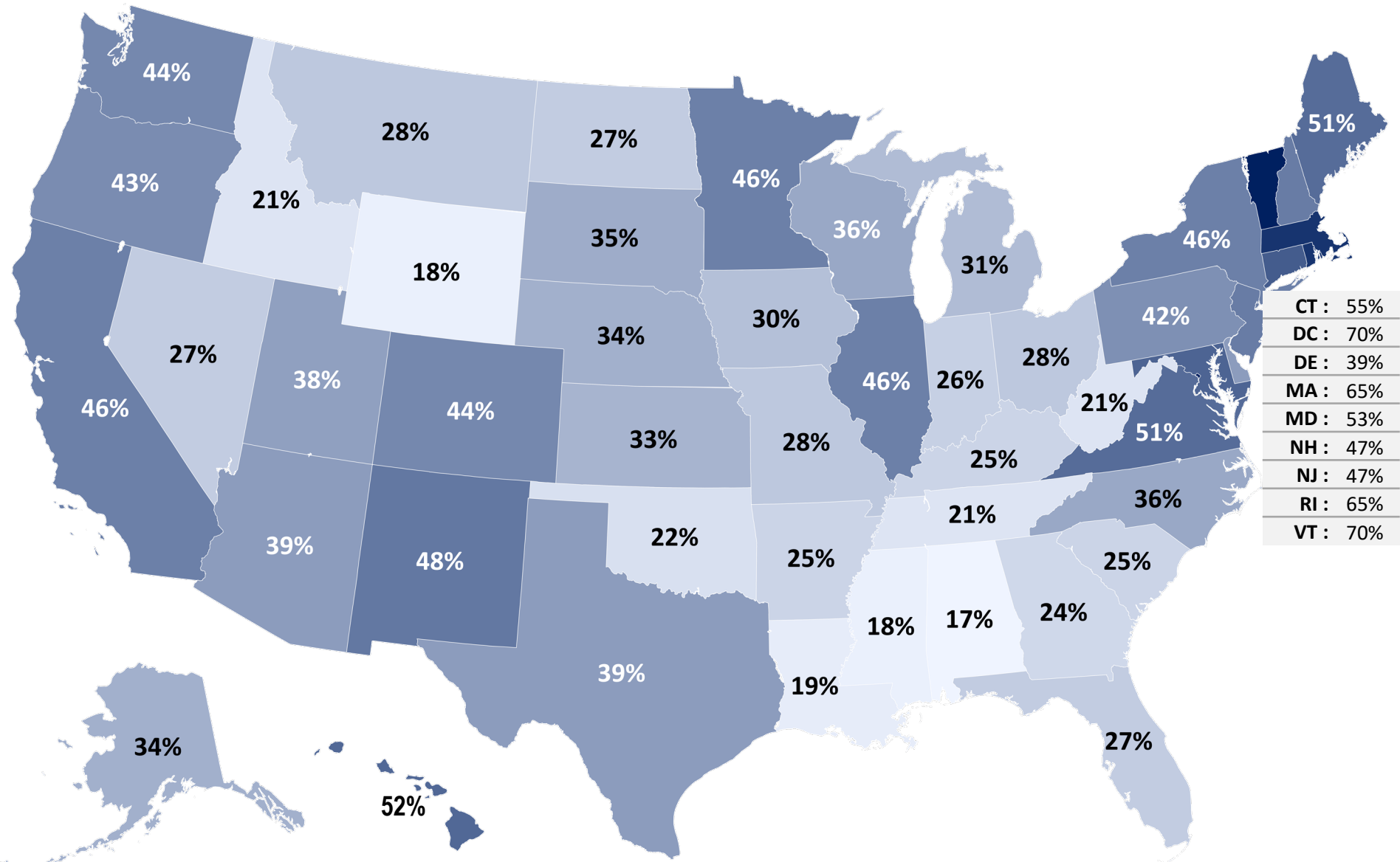


**Source:** AAP analysis of data series titled "COVID -19 Vaccinations in the United States, Jurisdiction". CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdj/uns-k-b7fc> ). Check state web sites for additional or more recent information. 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% 70%

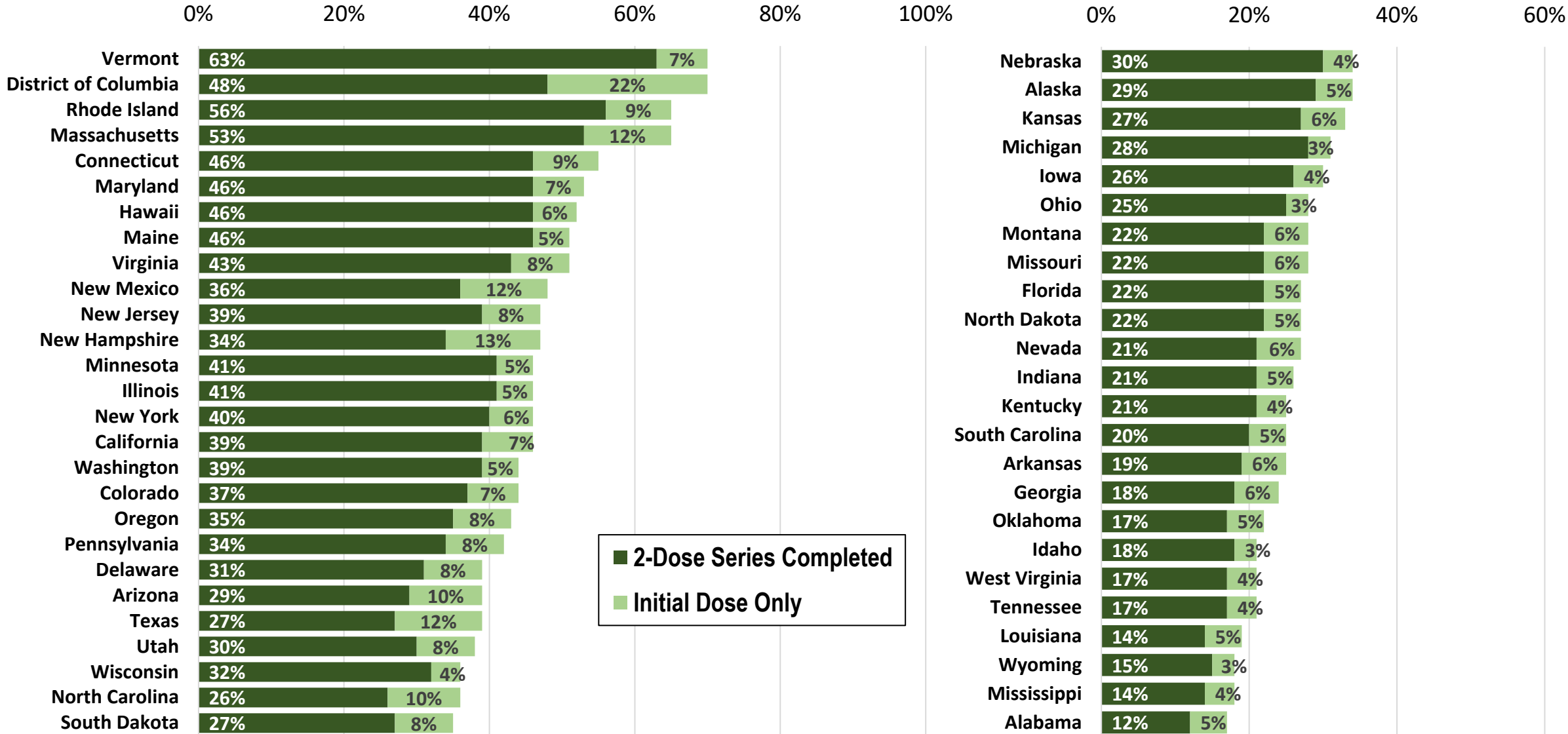
as of 9.14.2022



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 9.14.2022



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.

# 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		
	8/24/2022	9/14/2022	Increase by Percentage Point		8/24/2022	9/14/2022	Increase by Percentage Point
<b>50 States + DC</b>	<b>37.4%</b>	<b>37.8%</b>	<b>0.4%</b>	<b>Missouri</b>	27%	28%	1%
Alabama	17%	17%	0%	Montana	27%	28%	1%
Alaska	34%	34%	0%	Nebraska	34%	34%	0%
Arizona	39%	39%	0%	Nevada	26%	27%	1%
Arkansas	25%	25%	0%	New Hampshire	45%	47%	2%
California	46%	46%	0%	New Jersey	46%	47%	1%
Colorado	44%	44%	0%	New Mexico	48%	48%	0%
Connecticut	55%	55%	0%	New York	46%	46%	0%
Delaware	39%	39%	0%	North Carolina	35%	36%	1%
District of Columbia	68%	70%	2%	North Dakota	26%	27%	1%
Florida	27%	27%	0%	Ohio	28%	28%	0%
Georgia	24%	24%	0%	Oklahoma	22%	22%	0%
Hawaii	52%	52%	0%	Oregon	42%	43%	1%
Idaho	21%	21%	0%	Pennsylvania	41%	42%	1%
Illinois	46%	46%	0%	Rhode Island	65%	65%	0%
Indiana	26%	26%	0%	South Carolina	25%	25%	0%
Iowa	30%	30%	0%	South Dakota	34%	35%	1%
Kansas	33%	33%	0%	Tennessee	20%	21%	1%
Kentucky	25%	25%	0%	Texas	39%	39%	0%
Louisiana	19%	19%	0%	Utah	37%	38%	1%
Maine	51%	51%	0%	Vermont	69%	70%	1%
Maryland	52%	53%	1%	Virginia	50%	51%	1%
Massachusetts	65%	65%	0%	Washington	44%	44%	0%
Michigan	31%	31%	0%	West Virginia	21%	21%	0%
Minnesota	46%	46%	0%	Wisconsin	36%	36%	0%
Mississippi	17%	18%	1%	Wyoming	18%	18%	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 12-17

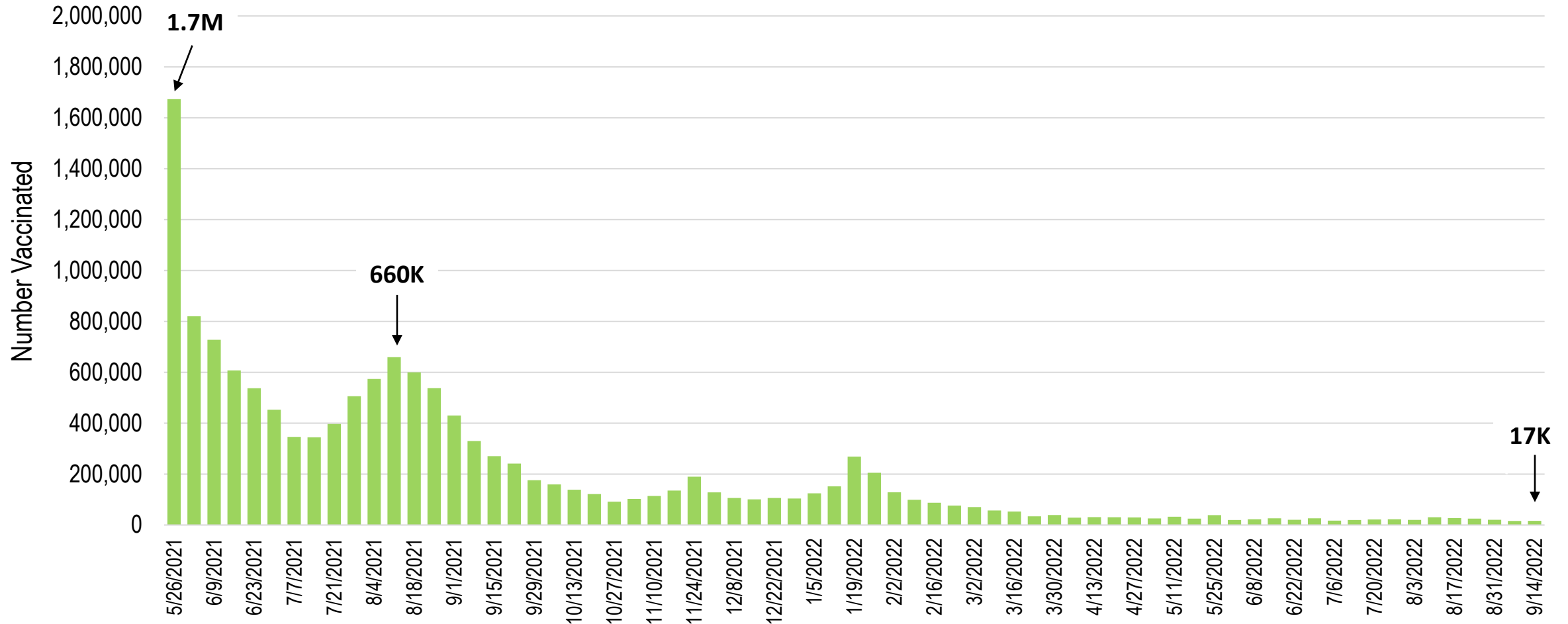
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# Weekly Increase in the Number of US Children Ages 12-17 Receiving Their Initial COVID-19 Vaccination

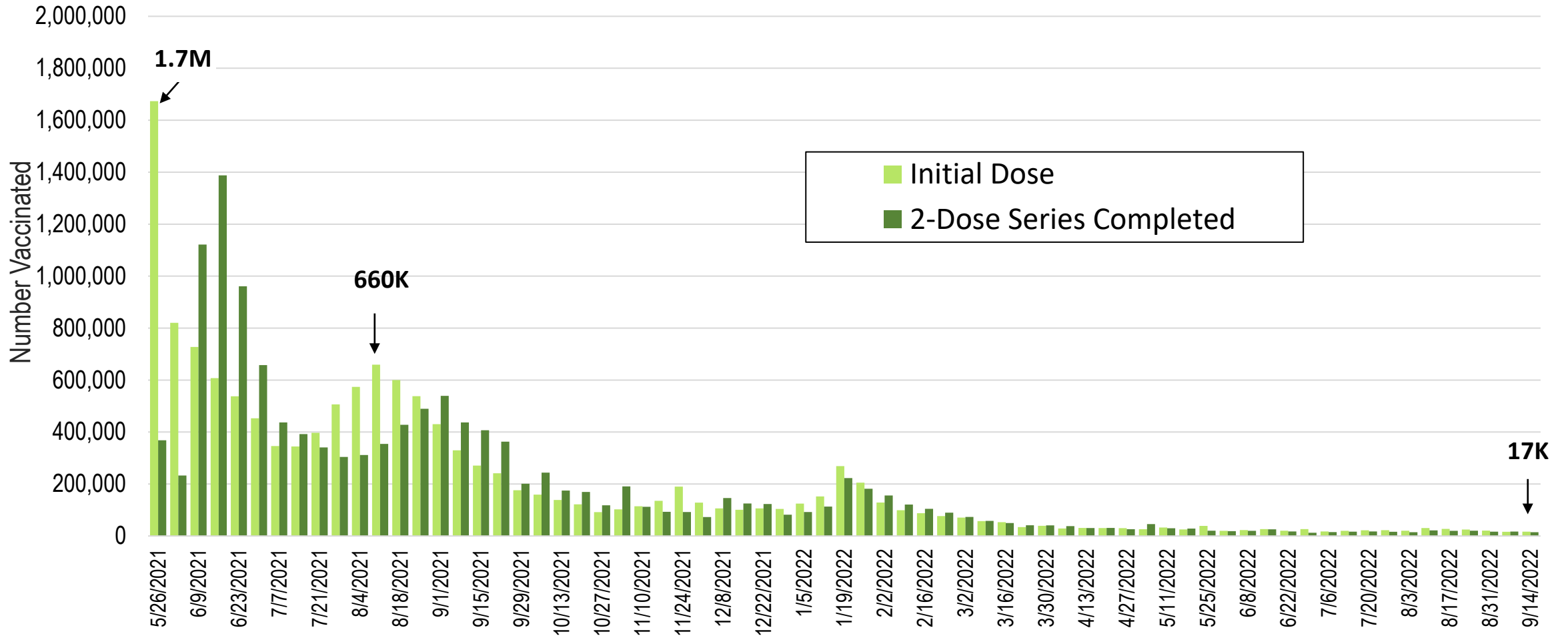
5.26.2021 to 9.14.2022



**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. **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.

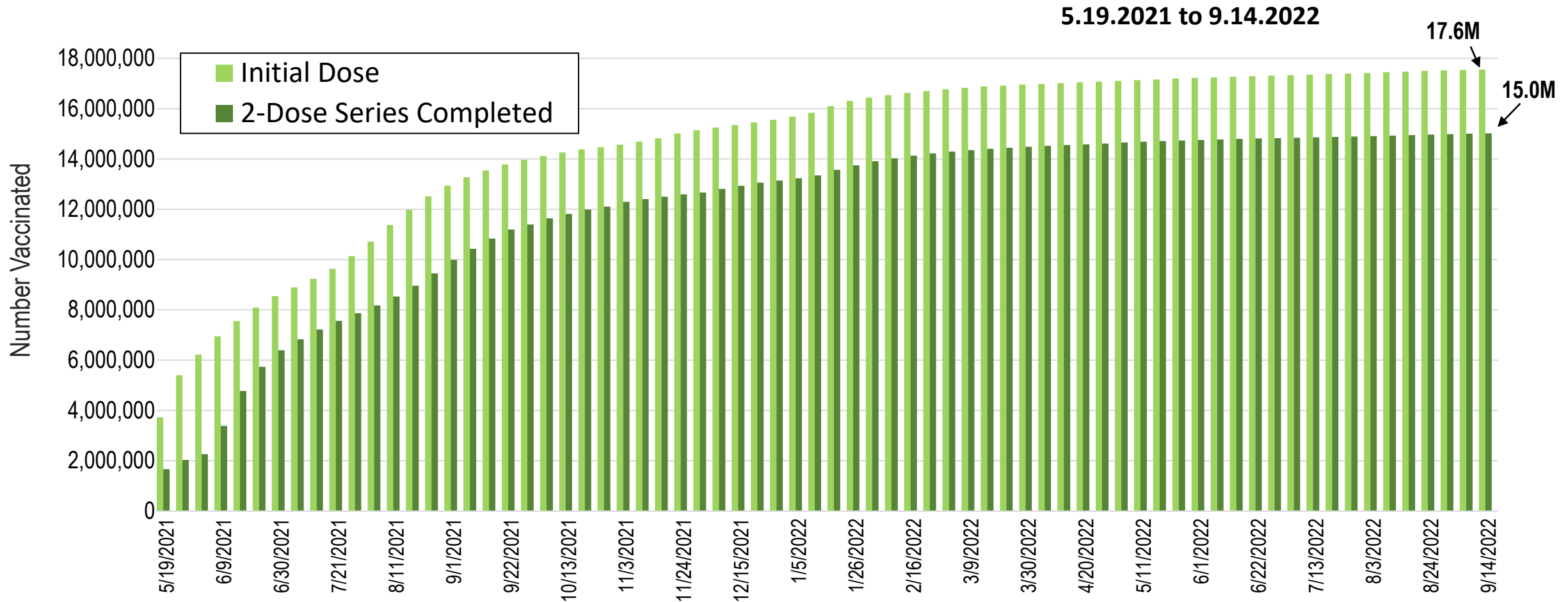
# Weekly Increase in Initial and Completed COVID-19 Vaccination for US Children Ages 12-17

5.26.2021 to 9.14.2022



**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.

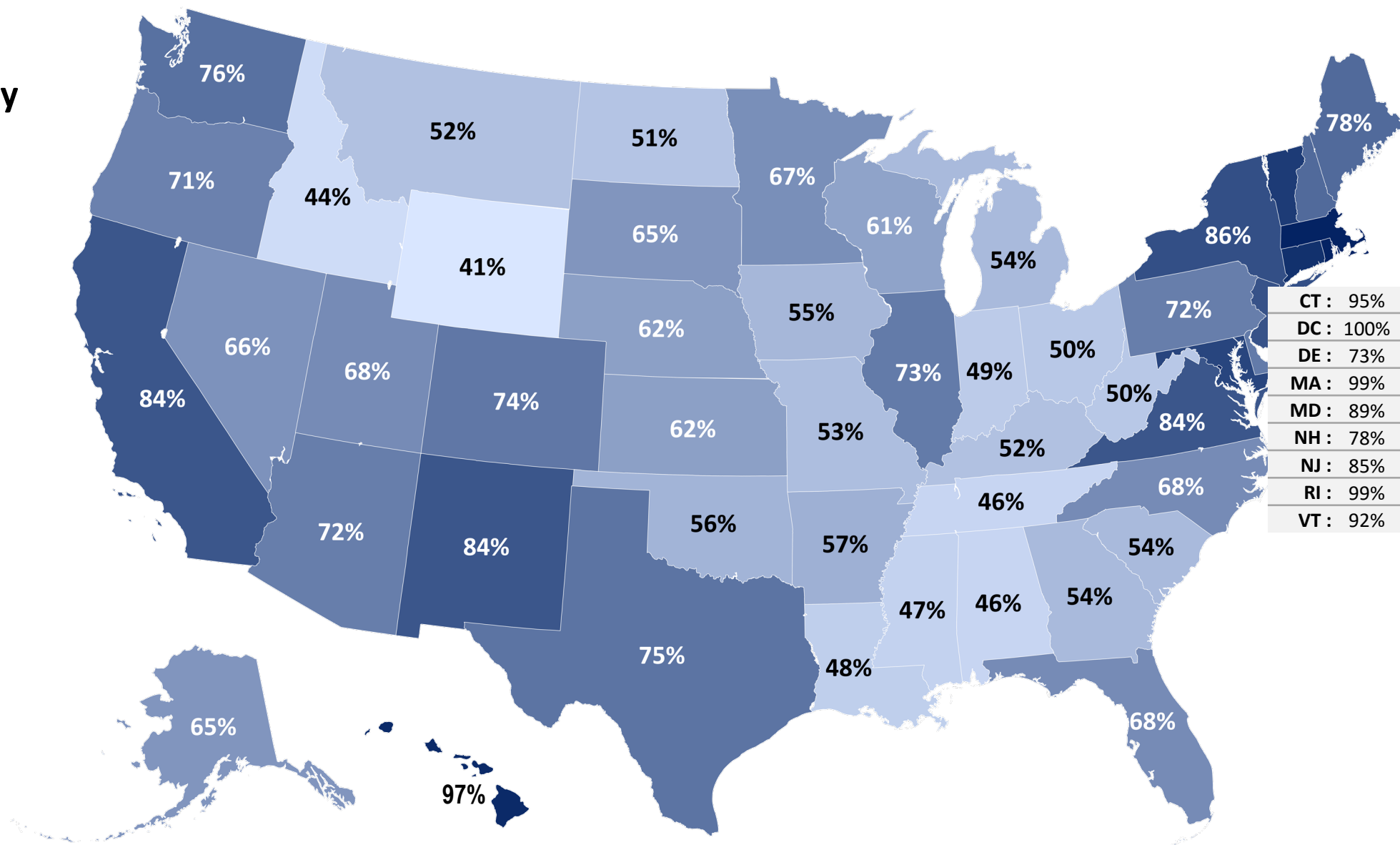
# Cumulative Number of US COVID-19 Vaccine Recipients Ages 12-17



**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-Jurisdiction/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

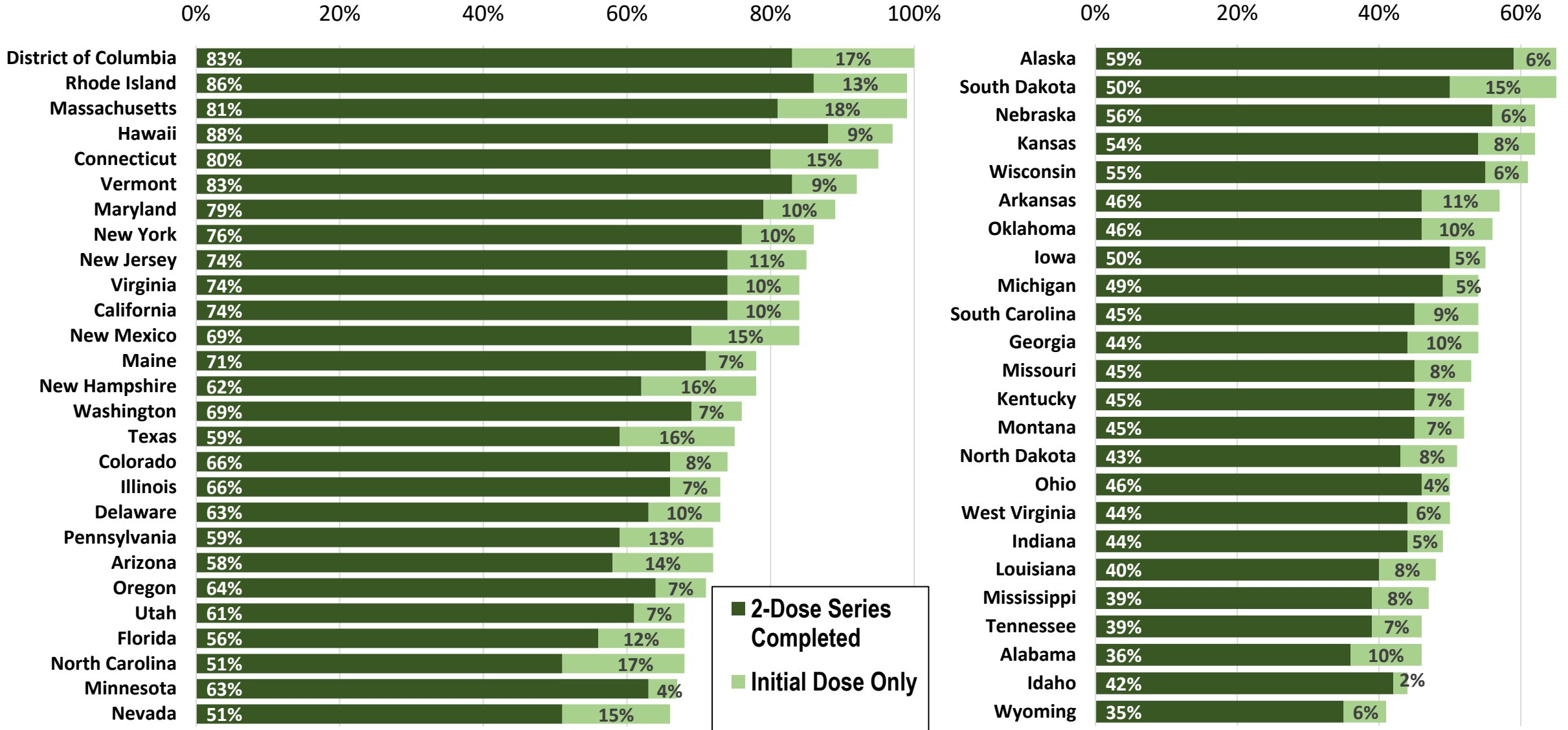
Received Initial Dose  as of 9.14.2022  
41% 100%



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 9.14.2022



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.

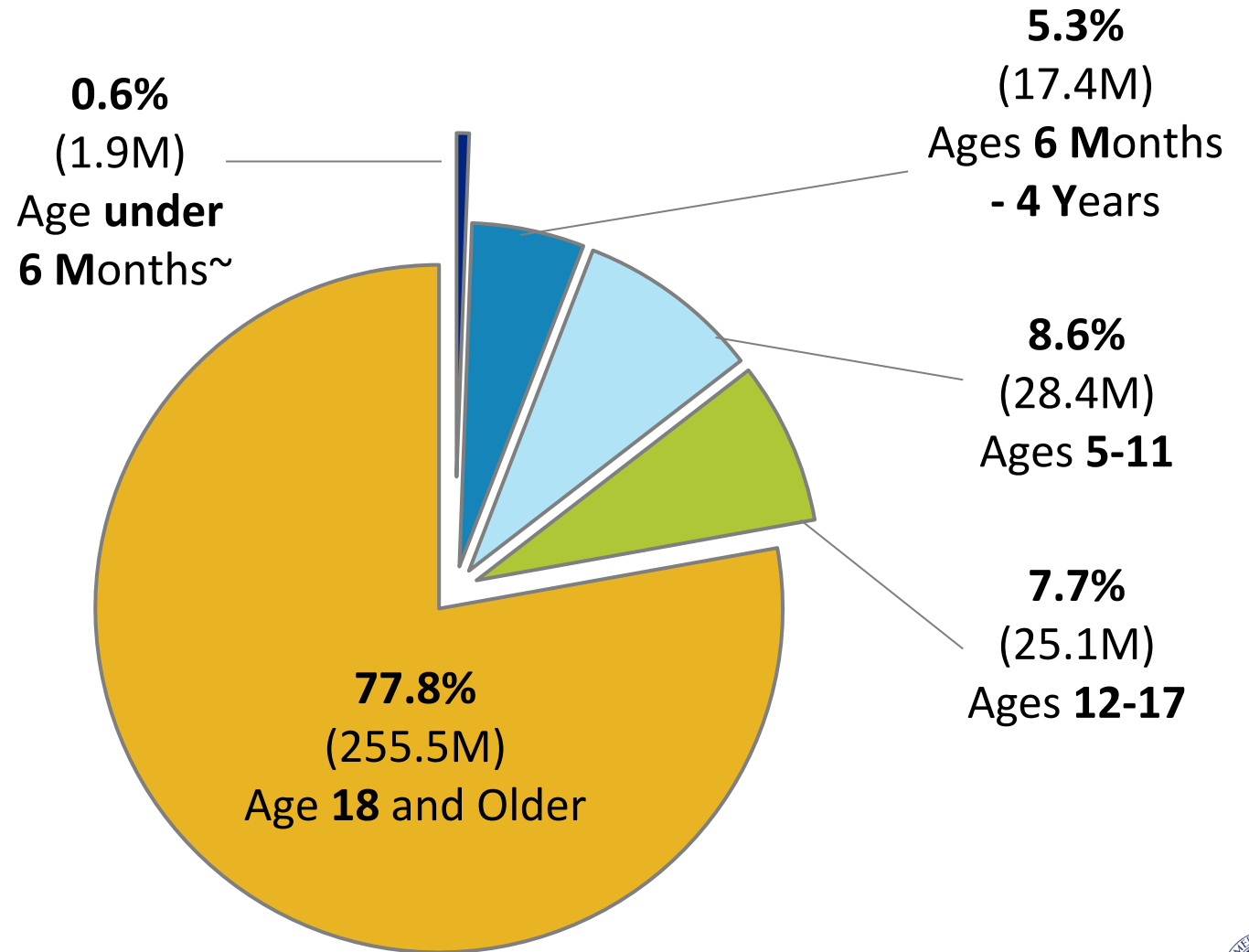
# Initial Dose Among US Children Ages 12-17 ---3 Week Improvement

State	%Children Having Received At Least One Dose			State (continued)	%Children Having Received At Least One Dose		
	8/24/2022	9/14/2022	<u>Increase</u> by Percentage Point		8/24/2022	9/14/2022	<u>Increase</u> by Percentage Point
<b>50 States + DC</b>	<b>69.6%</b>	<b>69.8%</b>	<b>0.2%</b>	<b>Missouri</b>	53%	53%	0%
<b>Alabama</b>	45%	46%	1%	<b>Montana</b>	52%	52%	0%
<b>Alaska</b>	65%	65%	0%	<b>Nebraska</b>	62%	62%	0%
<b>Arizona</b>	71%	72%	1%	<b>Nevada</b>	66%	66%	0%
<b>Arkansas</b>	57%	57%	0%	<b>New Hampshire</b>	77%	78%	1%
<b>California</b>	83%	84%	1%	<b>New Jersey</b>	85%	85%	0%
<b>Colorado</b>	74%	74%	0%	<b>New Mexico</b>	84%	84%	0%
<b>Connecticut</b>	94%	95%	1%	<b>New York</b>	86%	86%	0%
<b>Delaware</b>	73%	73%	0%	<b>North Carolina</b>	68%	68%	0%
<b>District of Columbia</b>	100%	100%	--	<b>North Dakota</b>	50%	51%	1%
<b>Florida</b>	67%	68%	1%	<b>Ohio</b>	50%	50%	0%
<b>Georgia</b>	54%	54%	0%	<b>Oklahoma</b>	56%	56%	0%
<b>Hawaii</b>	97%	97%	0%	<b>Oregon</b>	71%	71%	0%
<b>Idaho</b>	44%	44%	0%	<b>Pennsylvania</b>	72%	72%	0%
<b>Illinois</b>	73%	73%	0%	<b>Rhode Island</b>	98%	99%	1%
<b>Indiana</b>	49%	49%	0%	<b>South Carolina</b>	53%	54%	1%
<b>Iowa</b>	55%	55%	0%	<b>South Dakota</b>	64%	65%	1%
<b>Kansas</b>	62%	62%	0%	<b>Tennessee</b>	46%	46%	0%
<b>Kentucky</b>	52%	52%	0%	<b>Texas</b>	74%	75%	1%
<b>Louisiana</b>	48%	48%	0%	<b>Utah</b>	68%	68%	0%
<b>Maine</b>	78%	78%	0%	<b>Vermont</b>	92%	92%	0%
<b>Maryland</b>	89%	89%	0%	<b>Virginia</b>	84%	84%	0%
<b>Massachusetts</b>	98%	99%	1%	<b>Washington</b>	75%	76%	1%
<b>Michigan</b>	54%	54%	0%	<b>West Virginia</b>	50%	50%	0%
<b>Minnesota</b>	67%	67%	0%	<b>Wisconsin</b>	61%	61%	0%
<b>Mississippi</b>	47%	47%	0%	<b>Wyoming</b>	40%	41%	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-k-b7fc> ). 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/uns-k-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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