

Children and COVID-19 Vaccinations Trends

**AAP Analysis of Data Posted by the Centers for Disease Control and Prevention
as of March 1, 2023**

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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. Population totals are based on estimates published by the US Census Bureau. 2020 population estimates were used for reports through September 14, 2022. 2021 population estimates are used in current reports.

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 3.1.2023

Ages 6 months - 4 Years

- ❑ **2.0** million (**12%**) have received their initial dose of COVID-19 vaccine.
- ❑ At this time about **15.0** million have yet to receive their first vaccine. About **13,000** received their initial COVID-19 vaccine dose during the past week.
- ❑ Vaccination rates vary highly across states: In **20** states, over 12% have received their initial dose; in **17** states, under 10% have received their first vaccine.

Ages 5-11 Years

- ❑ **11.1** million (**39%**) have received their initial dose of COVID-19 vaccine.
- ❑ **9.2** million (**32%**) completed the 2-dose vaccination series.
- ❑ At this time about **17.5** million have yet to receive their initial COVID-19 vaccine dose. About **7,000** received their initial COVID-19 vaccine dose during the past week.
- ❑ Vaccination rates vary highly across states: In **10** states, over half have received their initial dose; in **21** states, under a third have received their first vaccine.

Ages 12-17 Years

- ❑ **17.9** million (**68%**) have received their initial dose of COVID-19 vaccine.
- ❑ **15.3** million (**58%**) completed the 2-dose vaccination series.
- ❑ At this time about **8.3** million have yet to receive their initial COVID-19 vaccine dose. About **7,000** received their initial COVID-19 vaccine dose during the past week.
- ❑ Vaccination rates vary highly across states: In **13** states, over 3 quarters have received their initial dose; in **11** states, under half have received their first vaccine.

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/uns-k-b7fc>). Data cover the 50 states & District of Columbia. Check state web sites for additional or more recent information.

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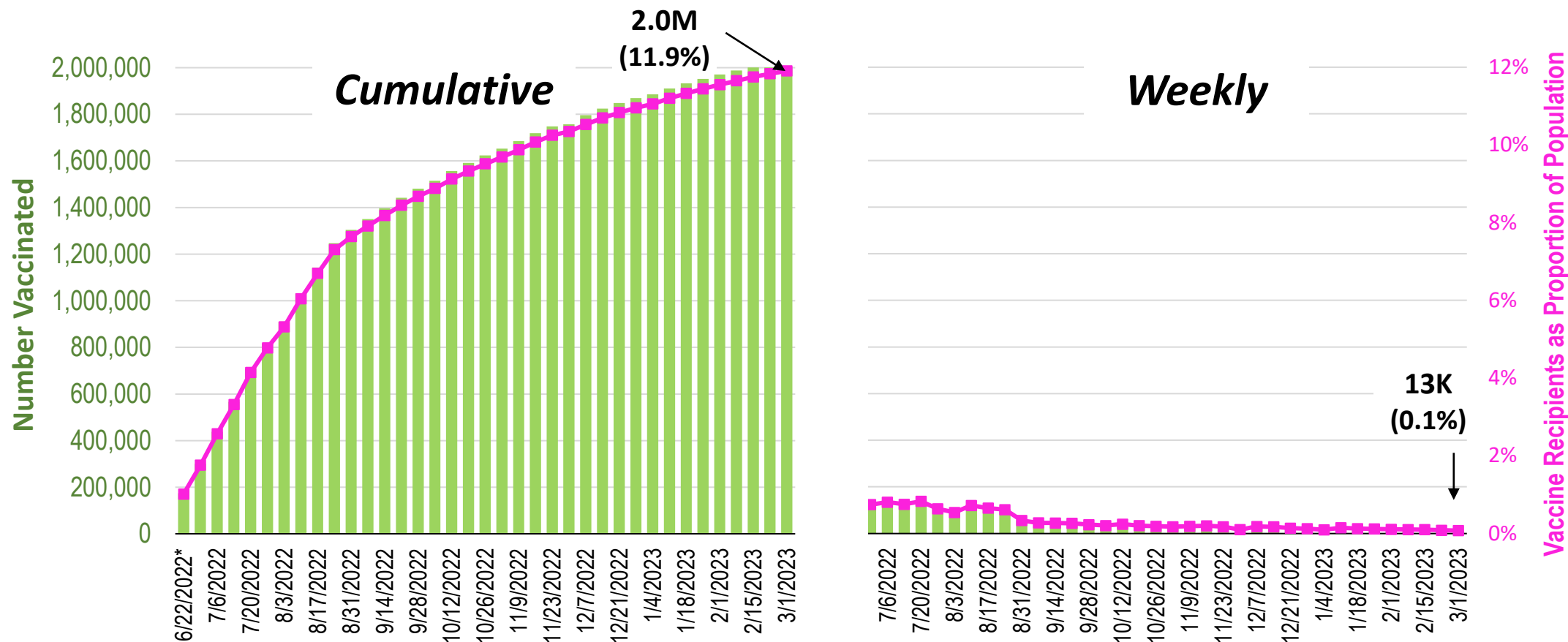
Ages 6 Months - 4 Years

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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 3.1.2023



* 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>).

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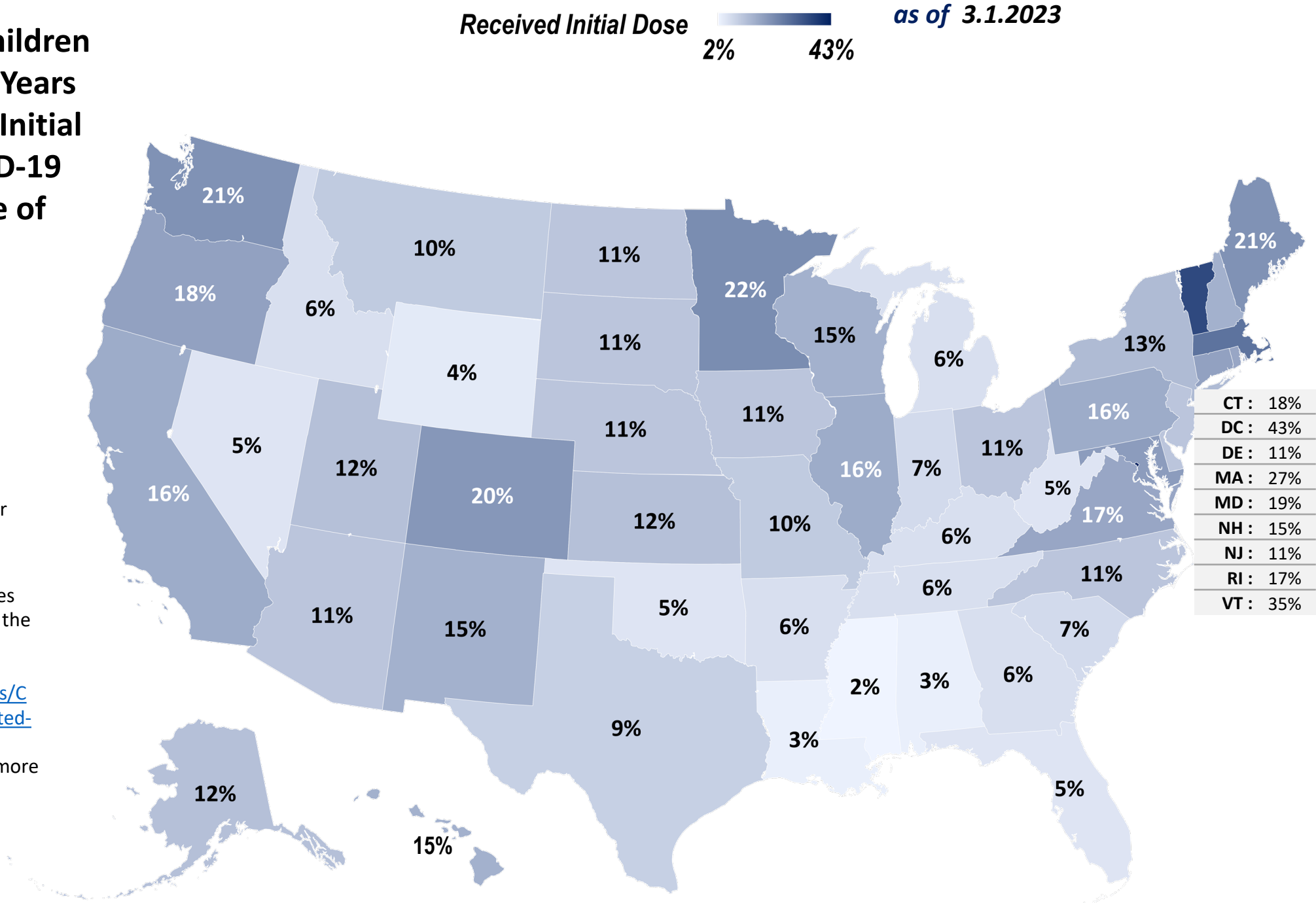
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Proportion of US Children Ages 6 Months - 4 Years Who Received the Initial Dose of the COVID-19 Vaccine, by State of Residence

Note: Infants 6 months and older are estimated as half of infant population.

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		
	2/8/2023	3/1/2023	<u>Increase</u> by Percentage Point		2/8/2023	3/1/2023	<u>Increase</u> by Percentage Point
50 States + DC	11.7%	11.9%	0.2%	Missouri	9%	10%	1%
Alabama	3%	3%	0%	Montana	9%	10%	1%
Alaska	11%	12%	1%	Nebraska	11%	11%	0%
Arizona	10%	11%	1%	Nevada	5%	5%	0%
Arkansas	6%	6%	0%	New Hampshire	14%	15%	1%
California	16%	16%	0%	New Jersey	11%	11%	0%
Colorado	20%	20%	0%	New Mexico	14%	15%	1%
Connecticut	17%	18%	1%	New York	12%	13%	1%
Delaware	11%	11%	0%	North Carolina	11%	11%	0%
District of Columbia	42%	43%	1%	North Dakota	11%	11%	0%
Florida	4%	5%	1%	Ohio	10%	11%	1%
Georgia	6%	6%	0%	Oklahoma	5%	5%	0%
Hawaii	14%	15%	1%	Oregon	17%	18%	1%
Idaho	6%	6%	0%	Pennsylvania	16%	16%	0%
Illinois	16%	16%	0%	Rhode Island	17%	17%	0%
Indiana	7%	7%	0%	South Carolina	7%	7%	0%
Iowa	11%	11%	0%	South Dakota	11%	11%	0%
Kansas	12%	12%	0%	Tennessee	6%	6%	0%
Kentucky	6%	6%	0%	Texas	8%	9%	1%
Louisiana	3%	3%	0%	Utah	12%	12%	0%
Maine	21%	21%	0%	Vermont	34%	35%	1%
Maryland	19%	19%	0%	Virginia	17%	17%	0%
Massachusetts	26%	27%	1%	Washington	21%	21%	0%
Michigan	6%	6%	0%	West Virginia	5%	5%	0%
Minnesota	21%	22%	1%	Wisconsin	15%	15%	0%
Mississippi	2%	2%	0%	Wyoming	4%	4%	0%

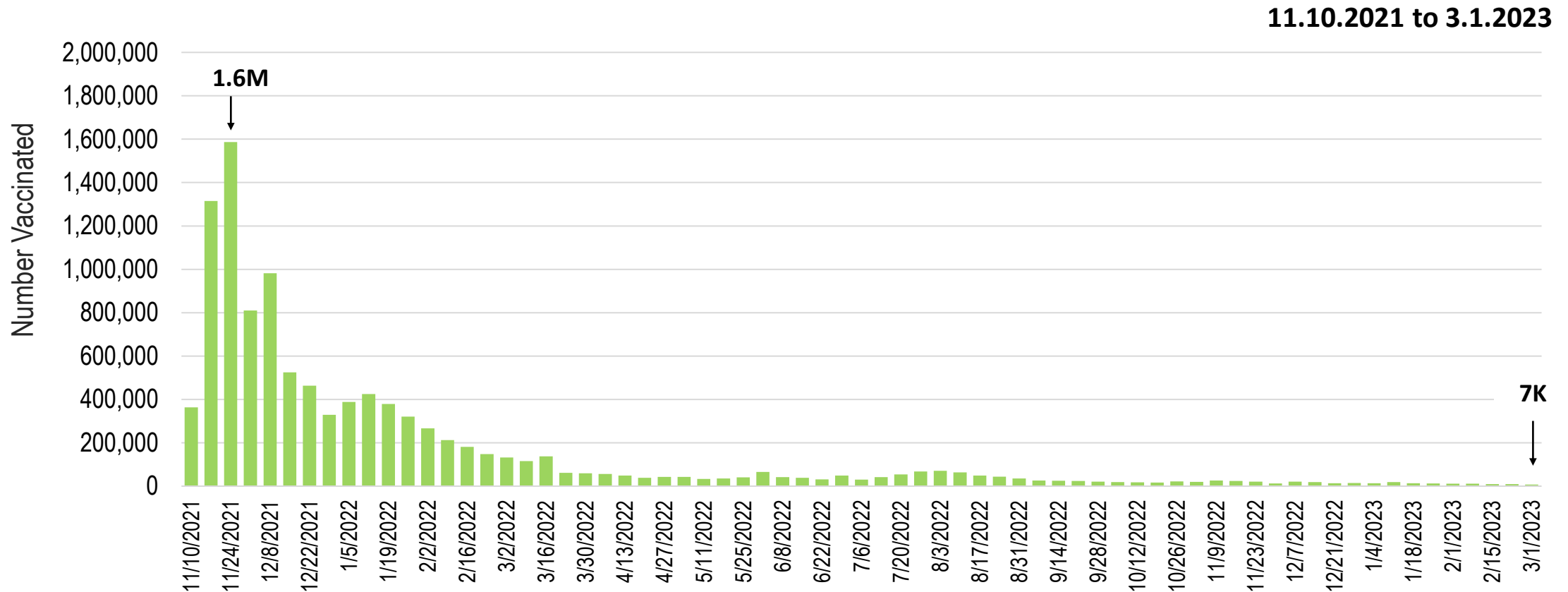
Source: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction>). Check state web sites for additional or more recent information.

Ages 5-11

Next 6 Slides



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



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. **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.

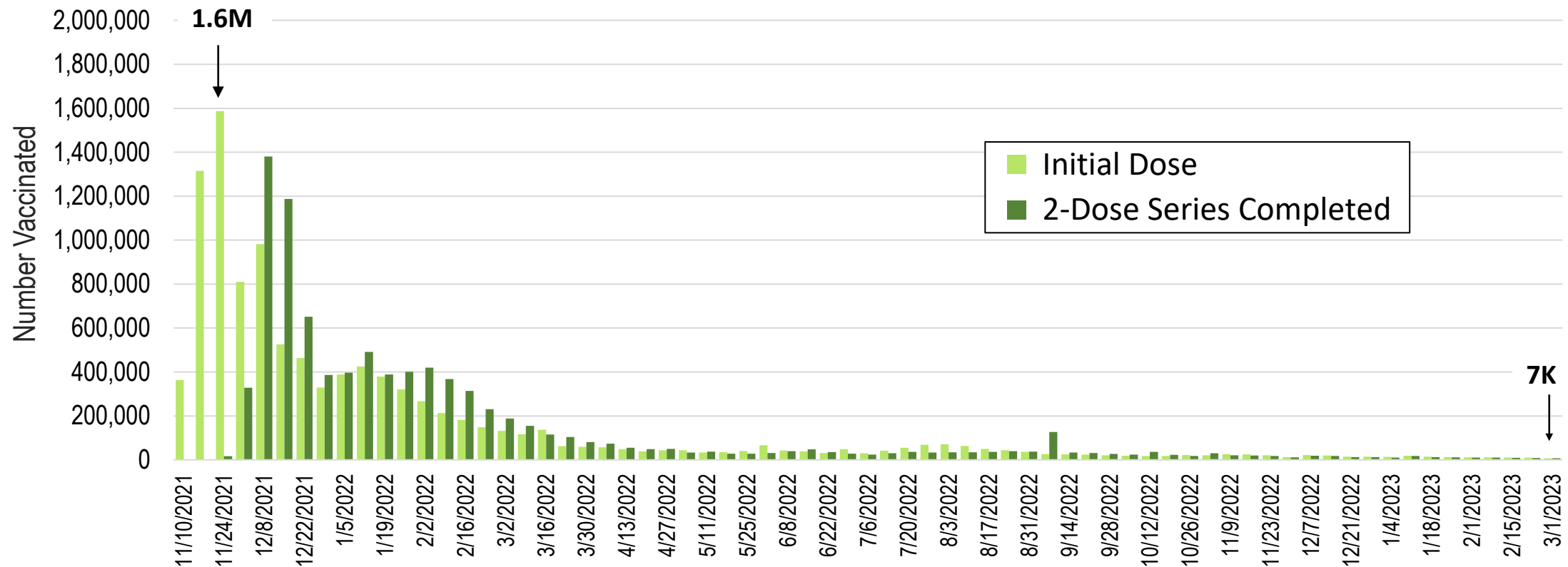
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Weekly Increase in Initial and Completed COVID-19 Vaccination for US Children Ages 5-11

11.10.2021 to 3.1.2023



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.

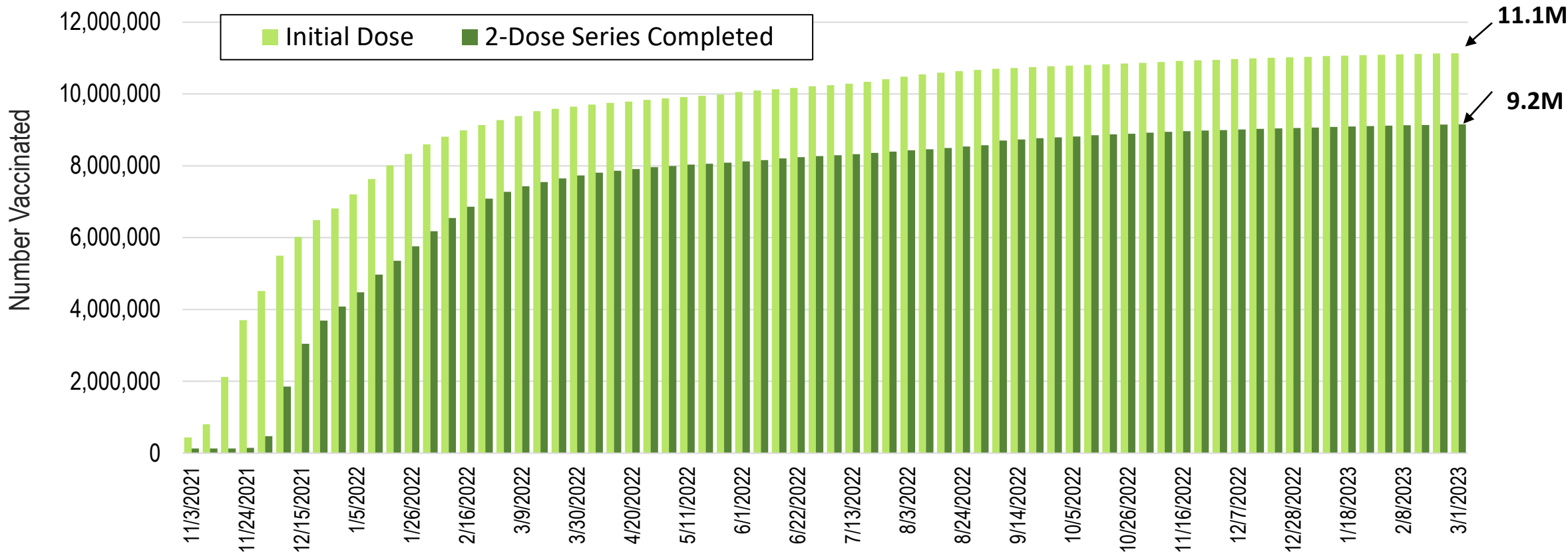
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Cumulative Number of US COVID-19 Vaccine Recipients Ages 5-11

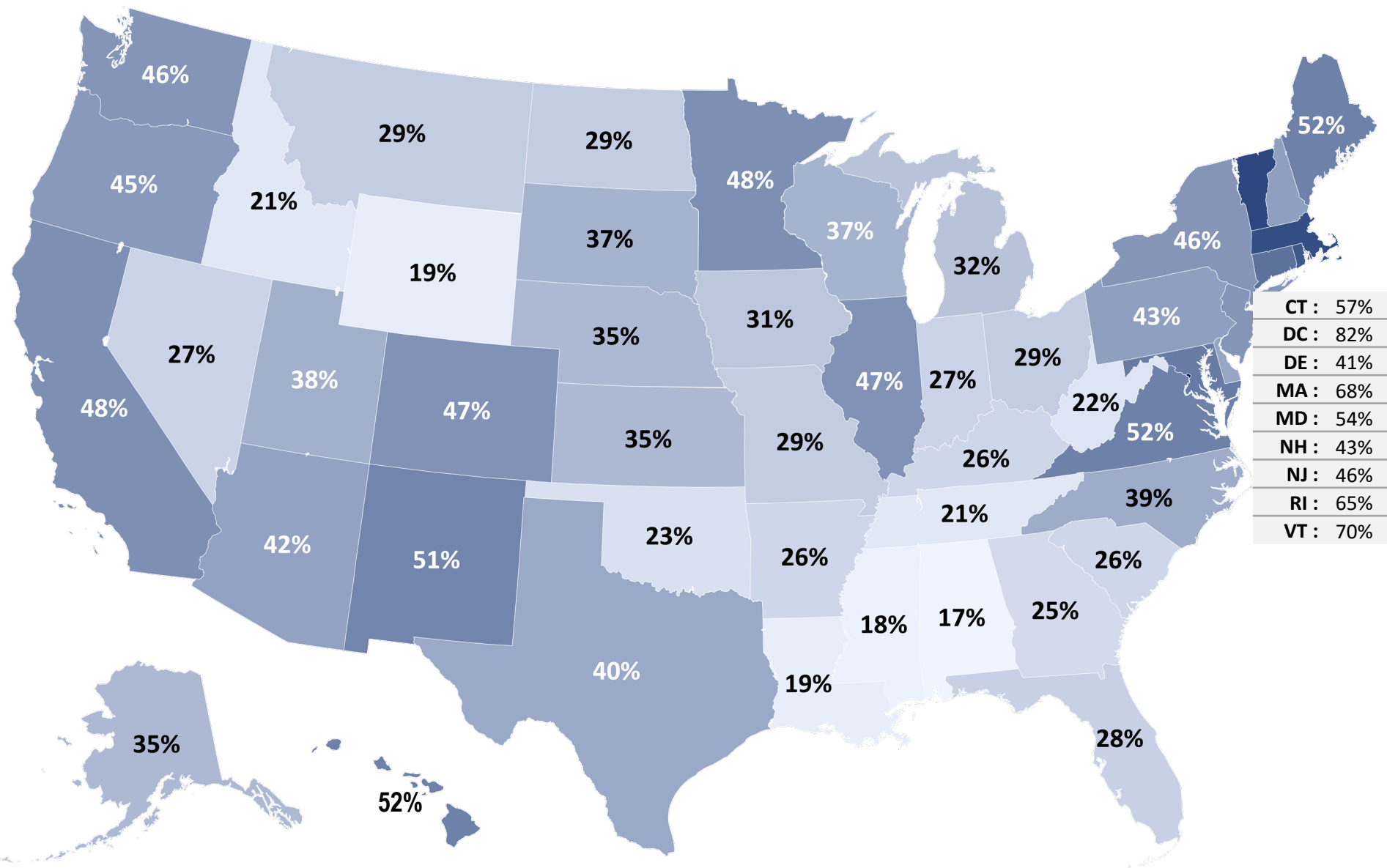
11.3.2021 to 3.1.2023



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. 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

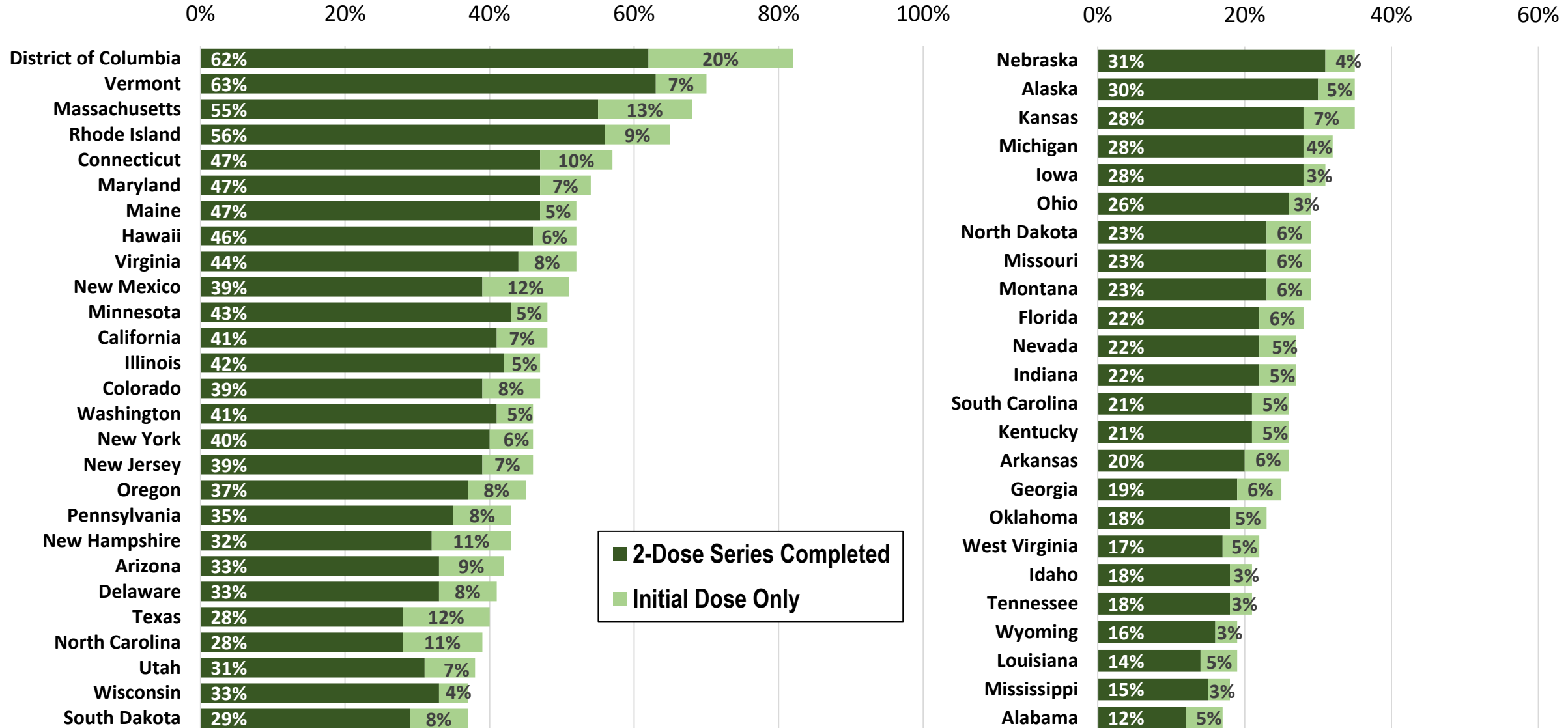
Received Initial Dose as of 3.1.2023
17% 82%



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/C OVID-19-Vaccinations-in-the-United-States-Jurisdj/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 3.1.2023



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		
	2/8/2023	3/1/2023	<u>Increase</u> by Percentage Point		2/8/2023	3/1/2023	<u>Increase</u> by Percentage Point
50 States + DC	38.8%	38.9%	0.1%	Missouri	29%	29%	0%
Alabama	17%	17%	0%	Montana	28%	29%	1%
Alaska	35%	35%	0%	Nebraska	35%	35%	0%
Arizona	42%	42%	0%	Nevada	27%	27%	0%
Arkansas	26%	26%	0%	New Hampshire	43%	43%	0%
California	47%	48%	1%	New Jersey	46%	46%	0%
Colorado	47%	47%	0%	New Mexico	51%	51%	0%
Connecticut	57%	57%	0%	New York	46%	46%	0%
Delaware	40%	41%	1%	North Carolina	39%	39%	0%
District of Columbia	82%	82%	0%	North Dakota	29%	29%	0%
Florida	28%	28%	0%	Ohio	29%	29%	0%
Georgia	25%	25%	0%	Oklahoma	23%	23%	0%
Hawaii	52%	52%	0%	Oregon	45%	45%	0%
Idaho	21%	21%	0%	Pennsylvania	43%	43%	0%
Illinois	47%	47%	0%	Rhode Island	65%	65%	0%
Indiana	27%	27%	0%	South Carolina	26%	26%	0%
Iowa	31%	31%	0%	South Dakota	37%	37%	0%
Kansas	35%	35%	0%	Tennessee	21%	21%	0%
Kentucky	26%	26%	0%	Texas	40%	40%	0%
Louisiana	19%	19%	0%	Utah	38%	38%	0%
Maine	52%	52%	0%	Vermont	70%	70%	0%
Maryland	54%	54%	0%	Virginia	52%	52%	0%
Massachusetts	68%	68%	0%	Washington	46%	46%	0%
Michigan	32%	32%	0%	West Virginia	22%	22%	0%
Minnesota	48%	48%	0%	Wisconsin	37%	37%	0%
Mississippi	18%	18%	0%	Wyoming	19%	19%	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-Jurisd/uns-k-b7fc>). Check state web sites for additional or more recent information.

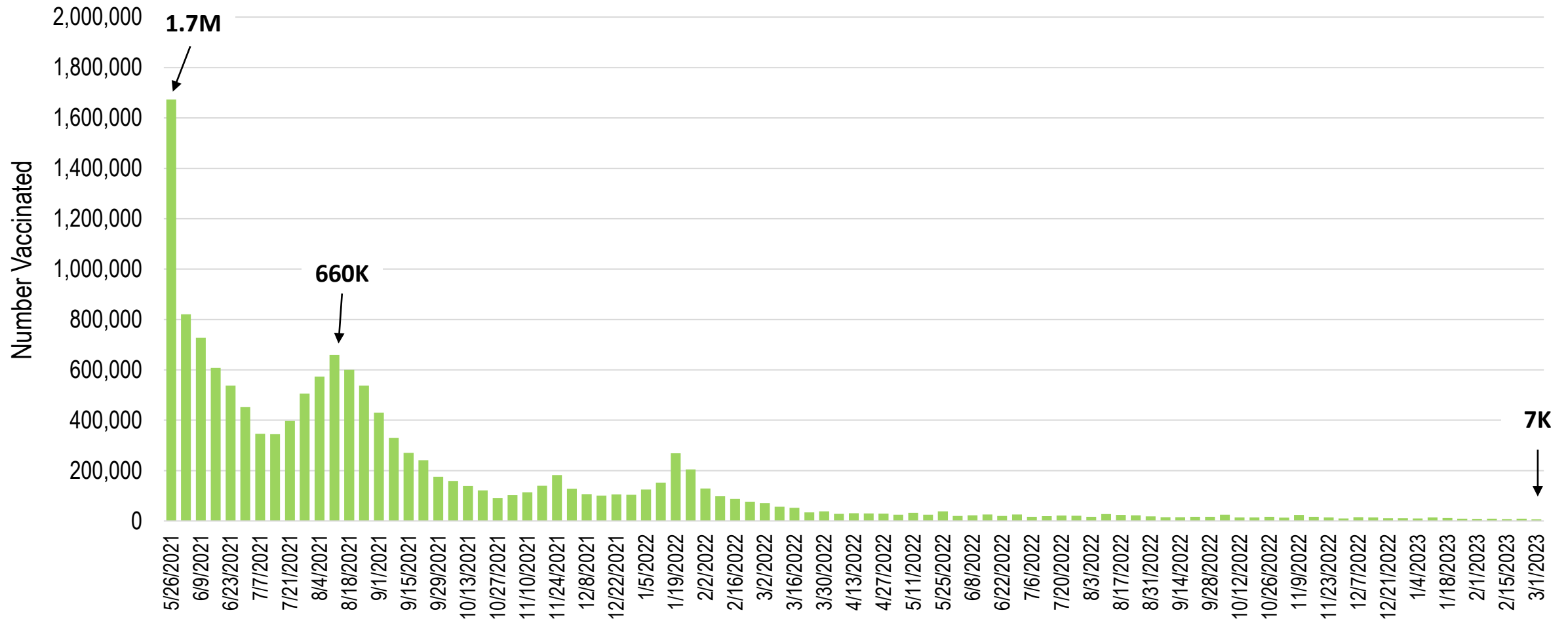
Ages 12-17

Next 6 Slides



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

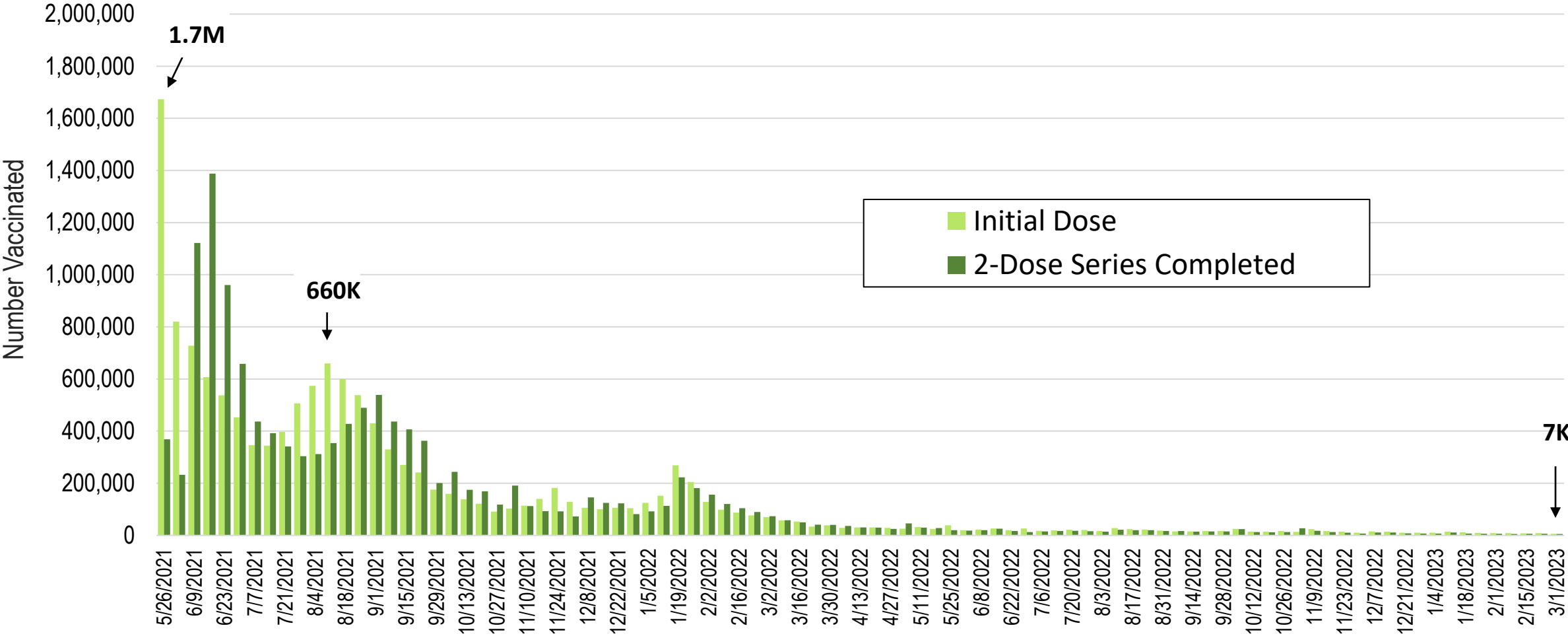
5.26.2021 to 3.1.2023



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.

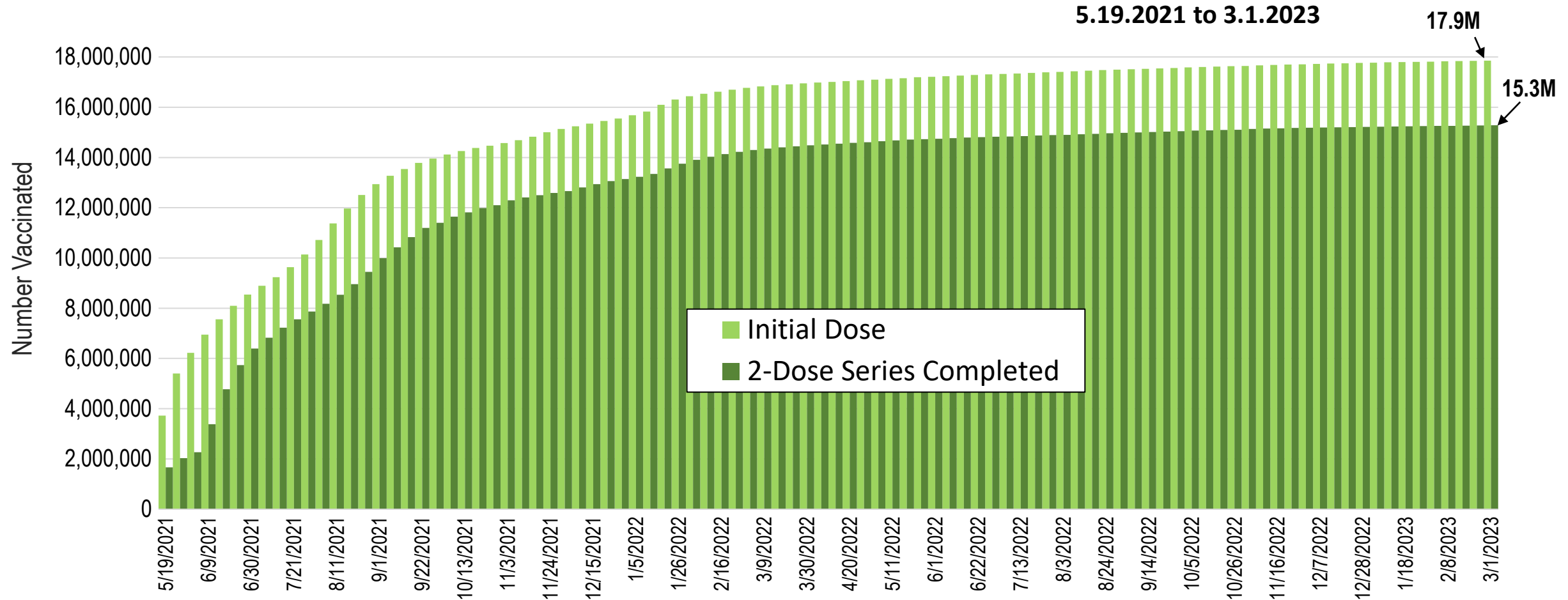
Weekly Increase in Initial and Completed COVID-19 Vaccination for US Children Ages 12-17

5.26.2021 to 3.1.2023



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.

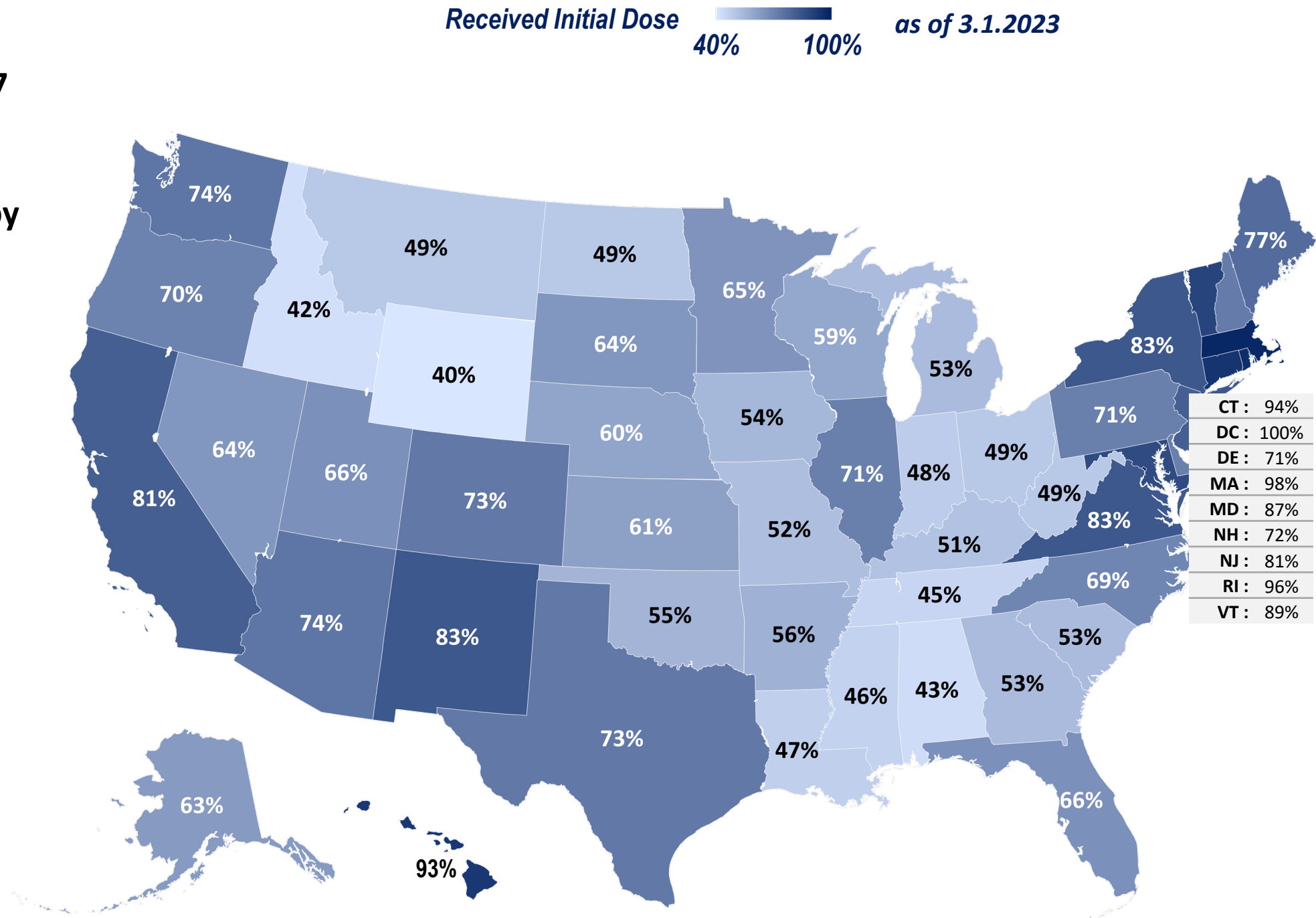
Cumulative Number of US COVID-19 Vaccine Recipients Ages 12-17



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-Jurisdi/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

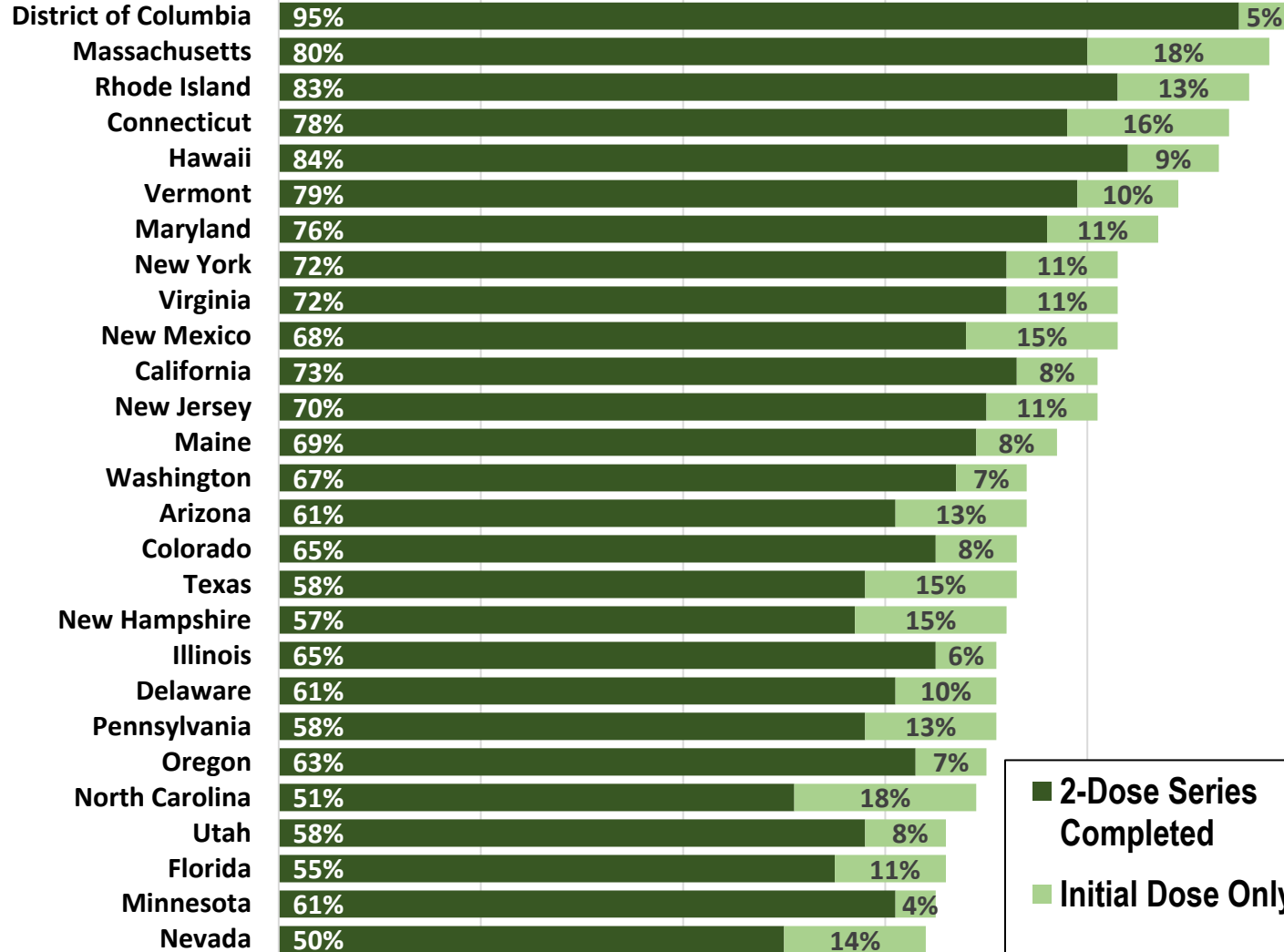
Source: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction/unsk-b7fc>). Check state web sites for additional or more recent information.



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

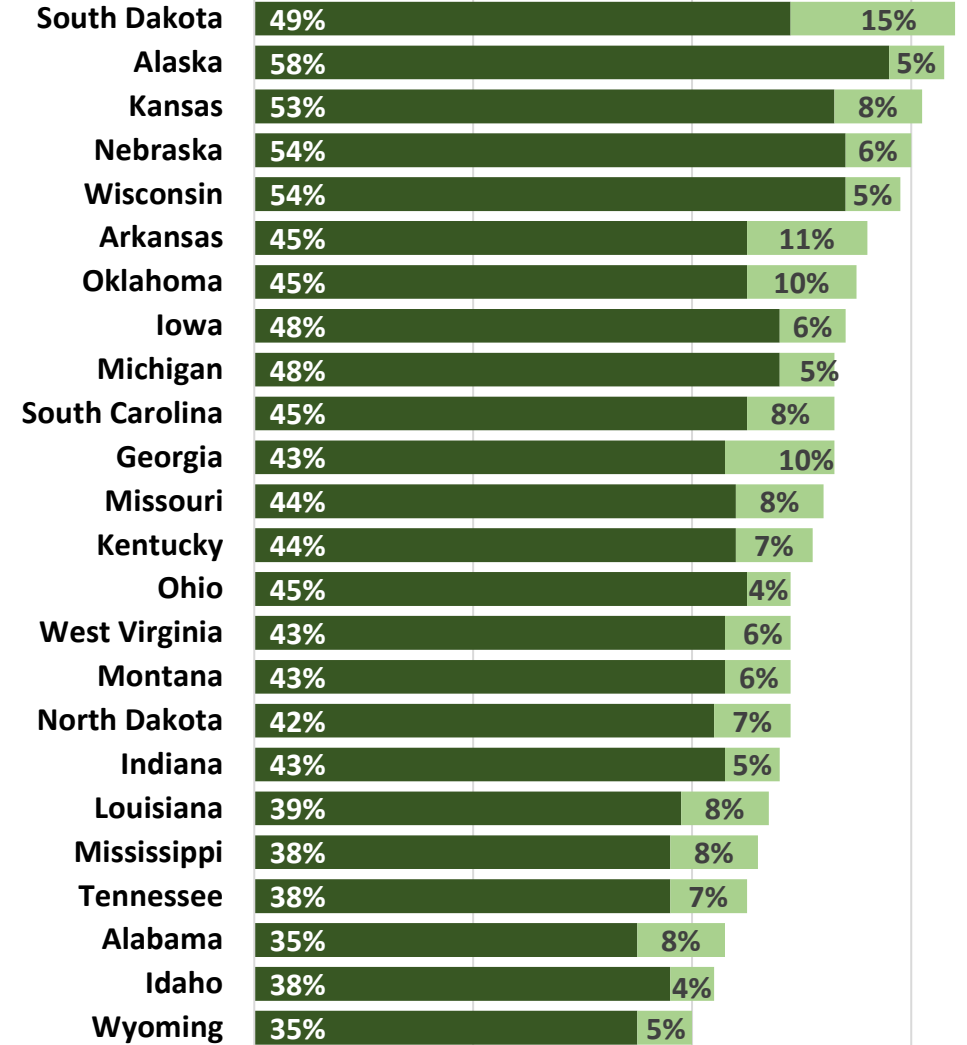
as of 3.1.2023

0% 20% 40% 60% 80% 100%



■ 2-Dose Series Completed
■ Initial Dose Only

0% 20% 40% 60%



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 12-17 ---3 Week Improvement

State	%Children Having Received At Least One Dose			State (continued)	%Children Having Received At Least One Dose		
	2/8/2023	3/1/2023	<u>Increase</u> by Percentage Point		2/8/2023	3/1/2023	<u>Increase</u> by Percentage Point
50 States + DC	68.2%	68.3%	0.1%	Missouri	52%	52%	0%
Alabama	43%	43%	0%	Montana	49%	49%	0%
Alaska	63%	63%	0%	Nebraska	60%	60%	0%
Arizona	73%	74%	1%	Nevada	64%	64%	0%
Arkansas	56%	56%	0%	New Hampshire	72%	72%	0%
California	81%	81%	0%	New Jersey	81%	81%	0%
Colorado	73%	73%	0%	New Mexico	83%	83%	0%
Connecticut	94%	94%	0%	New York	82%	83%	1%
Delaware	71%	71%	0%	North Carolina	69%	69%	0%
District of Columbia	100%	100%	--	North Dakota	49%	49%	0%
Florida	66%	66%	0%	Ohio	49%	49%	0%
Georgia	53%	53%	0%	Oklahoma	55%	55%	0%
Hawaii	93%	93%	0%	Oregon	70%	70%	0%
Idaho	42%	42%	0%	Pennsylvania	71%	71%	0%
Illinois	71%	71%	0%	Rhode Island	95%	96%	1%
Indiana	48%	48%	0%	South Carolina	53%	53%	0%
Iowa	54%	54%	0%	South Dakota	64%	64%	0%
Kansas	61%	61%	0%	Tennessee	45%	45%	0%
Kentucky	50%	51%	1%	Texas	73%	73%	0%
Louisiana	47%	47%	0%	Utah	66%	66%	0%
Maine	76%	77%	1%	Vermont	89%	89%	0%
Maryland	86%	87%	1%	Virginia	82%	83%	1%
Massachusetts	98%	98%	0%	Washington	74%	74%	0%
Michigan	53%	53%	0%	West Virginia	49%	49%	0%
Minnesota	65%	65%	0%	Wisconsin	59%	59%	0%
Mississippi	46%	46%	0%	Wyoming	40%	40%	0%

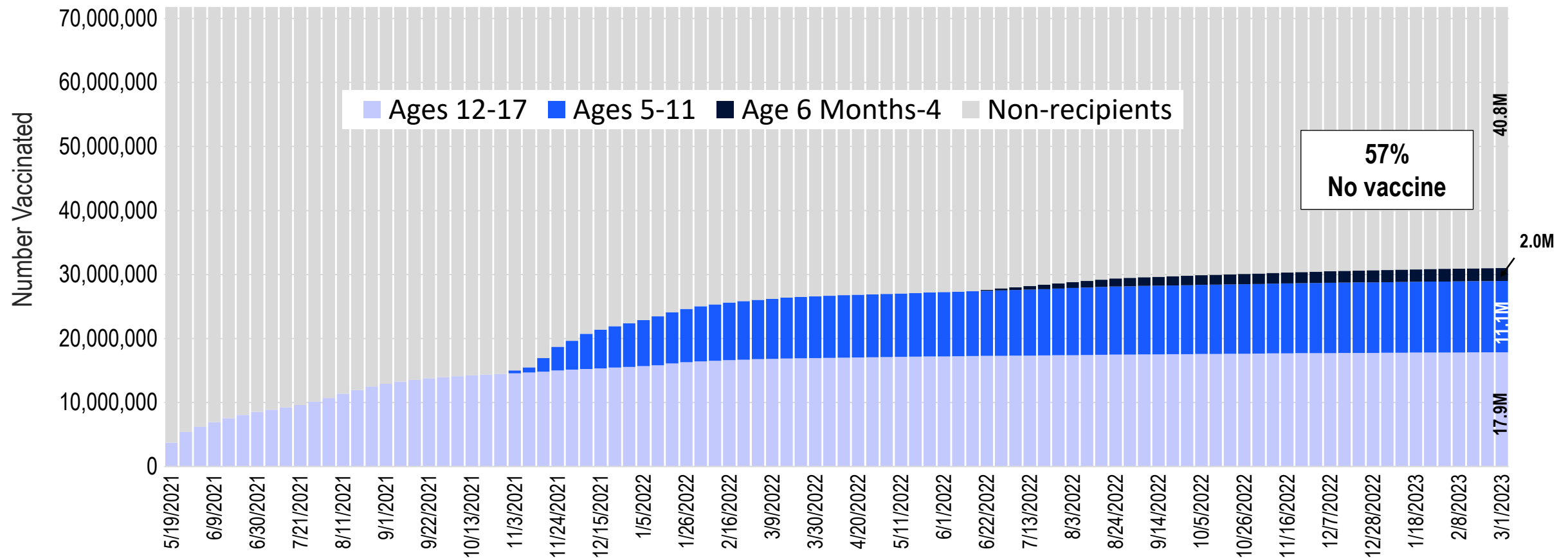
Source: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdiction>). Check state web sites for additional or more recent information.

Vaccination Across Age Groups



Cumulative Number of US Children (6 months – 17 years) Receiving At Least Initial Dose of COVID-19 Vaccine

5.19.21 to 3.1.2023



Sources: AAP analysis of data series titled “COVID -19 Vaccinations in the United States, Jurisdiction”. CDC COVID -19 Data Tracker. Includes 50 states and DC. (URL: <https://data.cdc.gov/Vaccinations/COVID-19-Vaccinations-in-the-United-States-Jurisdi/unsk-b7fc>). Population totals are based on 2021 population estimates (SC-EST2021) published by the US Census Bureau (URL: <https://www.census.gov/data/datasets/time-series/demo/popest/2020s-state-detail.html>).

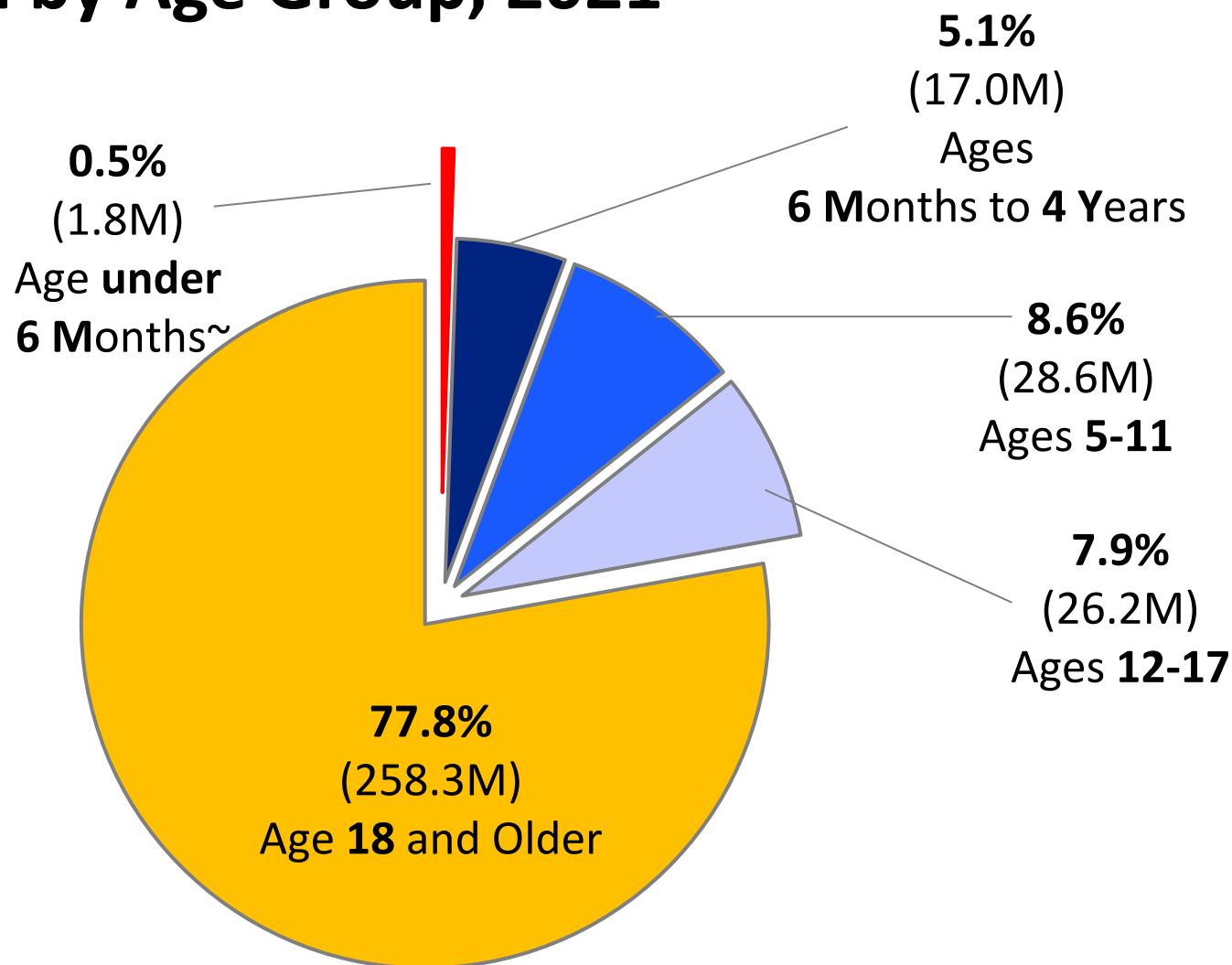
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US Population by Age Group, 2021

In 2021, children
(73.6M under Age 18)
made up **22.2%**
of the total
US population



~ Age under 6 months are estimated as half of infant population. **Note:** Percents do not sum to 100.0% due to rounding. **Source:** AAP analysis of report published by US Bureau of Census: Annual State Resident Population Estimates for 6 Race Groups by Age, Sex, and Hispanic Origin: April 1, 2020 to July 1, 2021 (SC-EST2021-ALLDATA6) [Link: <https://www.census.gov/data/datasets/time-series/demo/popest/2020s-state-detail.html>]



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 2021 population estimates (SC-EST2021) published by the US Census Bureau (URL: <https://www.census.gov/data/datasets/time-series/demo/popest/2020s-state-detail.html>).



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