



# **US COVID Vaccination Forecast:**

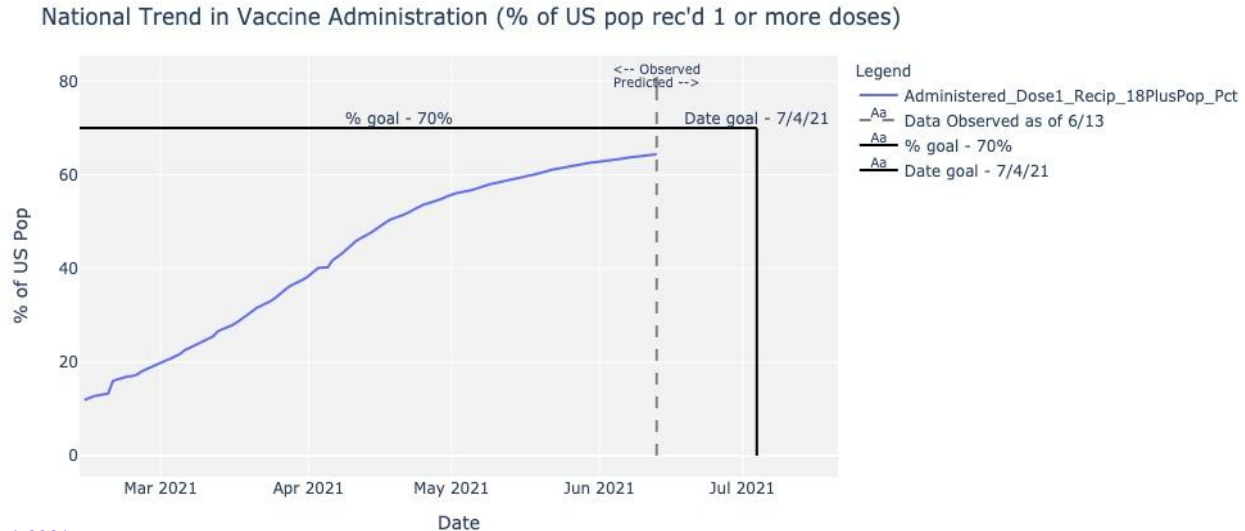
**Will the US vaccinate at least 70% of the  
adult population by July 4th, 2021?**

Kristin Cooper | June 18, 2021

# Introduction

On May 4, 2021, President Biden announced a goal to administer at least one coronavirus vaccine dose to 70% of the U.S. adult population by July 4th.

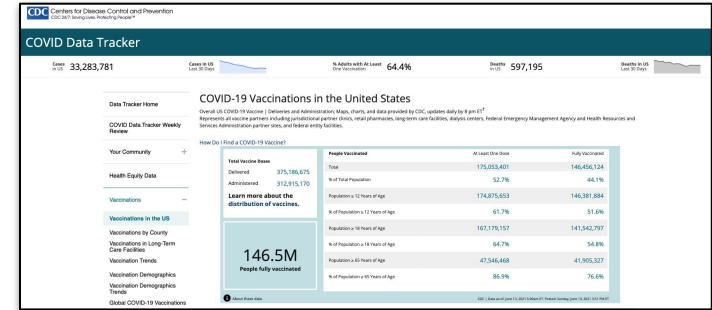
**This analysis seeks to brief the Biden Administration on progress as of June 13th, and suggest where to focus campaign efforts in the remaining days leading up to the deadline.**



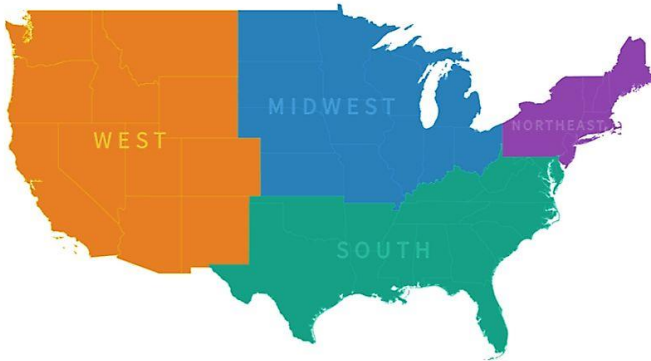
# Data

Data source: [CDC's official COVID-19 Vaccination dataset](#) extracted on June 13, 2021.

Analysis focused on adults in the 50 states + District of Columbia + Puerto Rico.



CDC COVID Data Tracker - Vaccinations in the US webpage



US Regions, per Census Bureau

The four regions were defined according to the [US Census Bureau's definitions](#).

# National Analysis

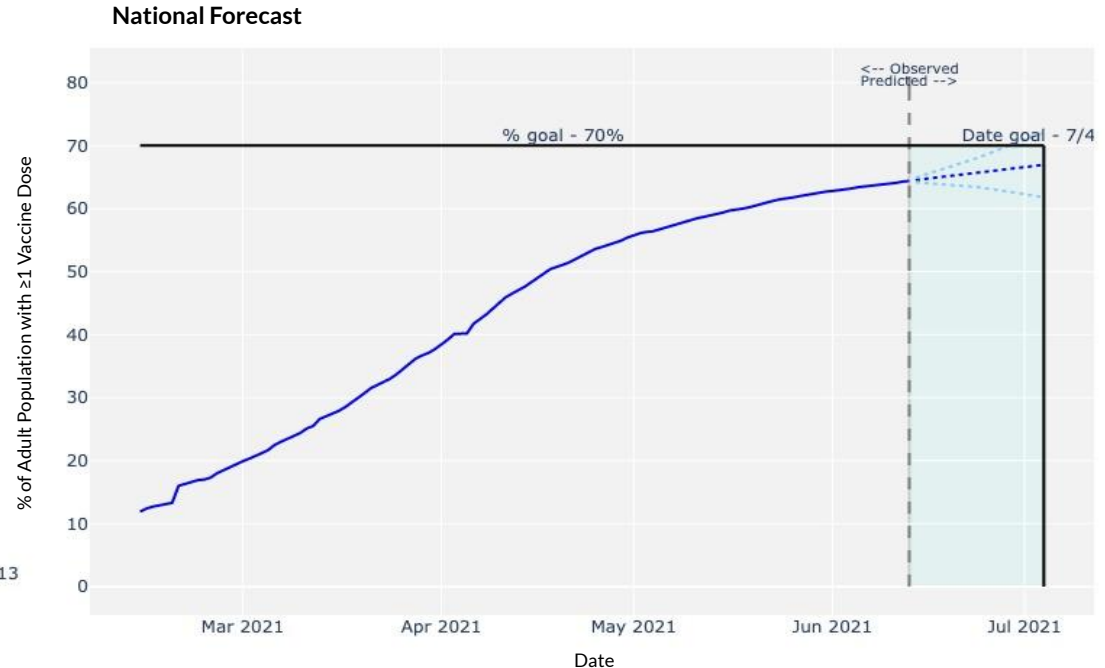
As of June 13th, the CDC reported 64.4% of the adult population had received at least one vaccine dose.

## Model forecasts:

- 66.96% by July 4th
  - Upper 95% confidence interval: 72.93%
  - Lower 95% confidence interval: 61.78%
- 70.02% by August 2nd

### Legend

- Actual
- - - Forecast
- - - Upper CI
- - - Lower CI
- <sub>Aa</sub> Data Observed as of 6/13
- <sub>Aa</sub> % goal - 70%
- <sub>Aa</sub> Date goal - 7/4/21



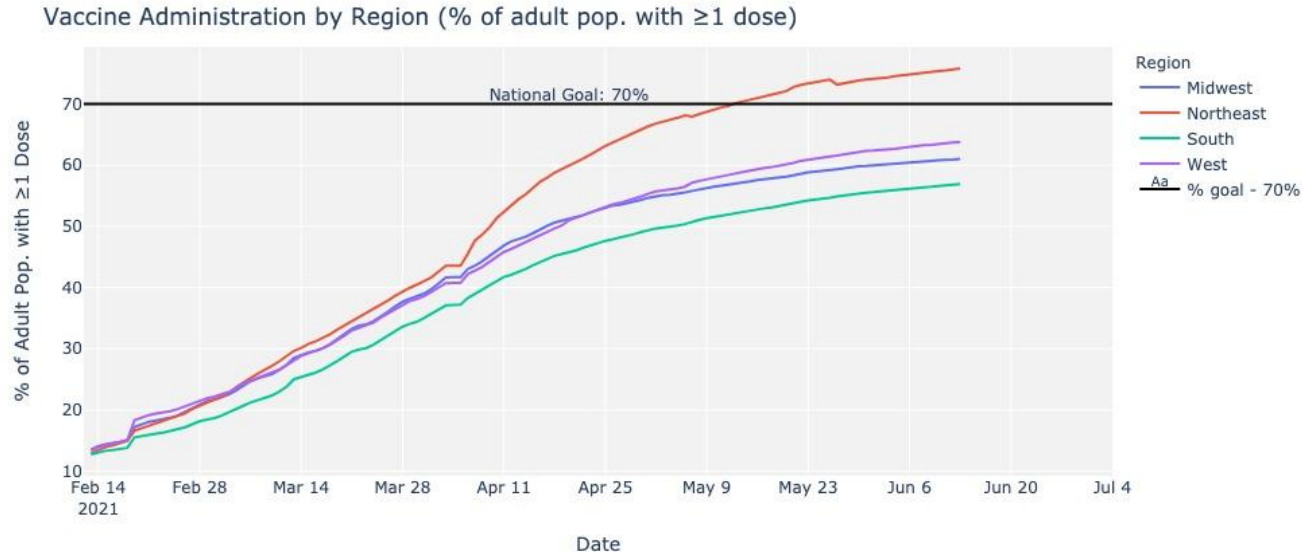
# Regional Analysis

The northeast is leading the nation, meeting the 70% goal in mid-May and reporting nearly 80% of the adult population having received at least one vaccine dose as of June 13.

West - 63.8%

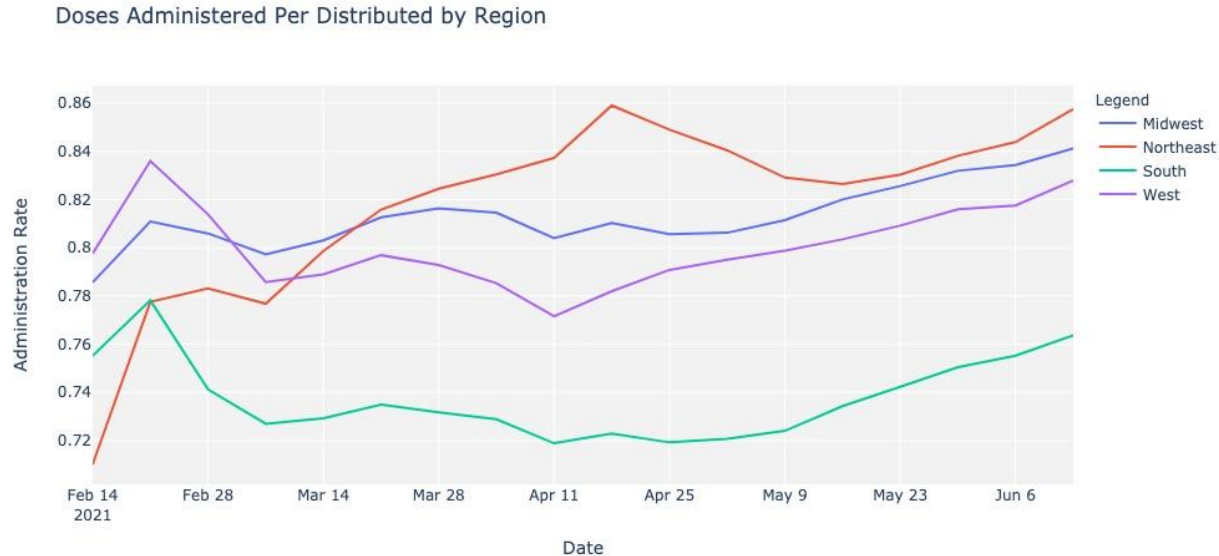
Midwest - 61.1%

South - 57.0%



# Administration Rate

The South lags significantly behind other regions in administration rate, suggesting their **challenge is not in vaccine availability but in the population's interest in getting vaccinated.**





# Summary & Recommendations

While current forecasts show the US falling short of the Biden Administration's goal of administering at least one COVID-19 vaccine dose to 70% of the adult population, additional campaigning may be able to shift the trend upward toward the goal.

Recommendations:

→ **Continue community-based vaccine education and local outreach efforts**

Prioritize this aspect of the campaign over increasing vaccine distribution

→ **Launch a nation-wide educational campaign via multiple channels**

Explain the benefits and risks of COVID-19 vaccination and debunk common misconceptions that may be discouraging people from getting vaccinated

→ **Focus investment in the South**

Compared to other regions, the greatest opportunity lies in the south

# Thank You!

**Full Report:**

<https://github.com/kcoop610/time-series-analysis-us-vaccine-goal>

**Email:**

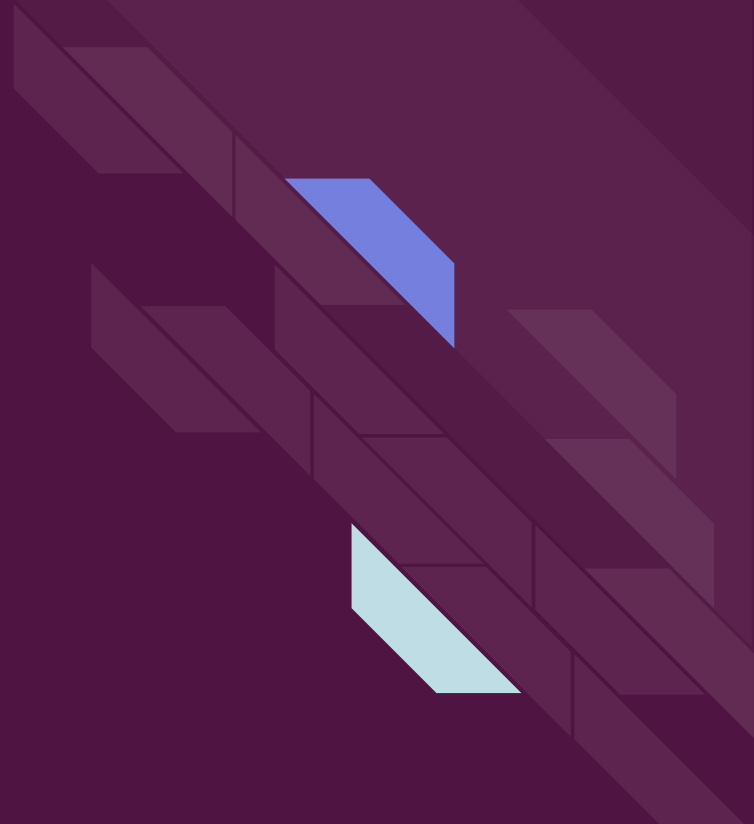
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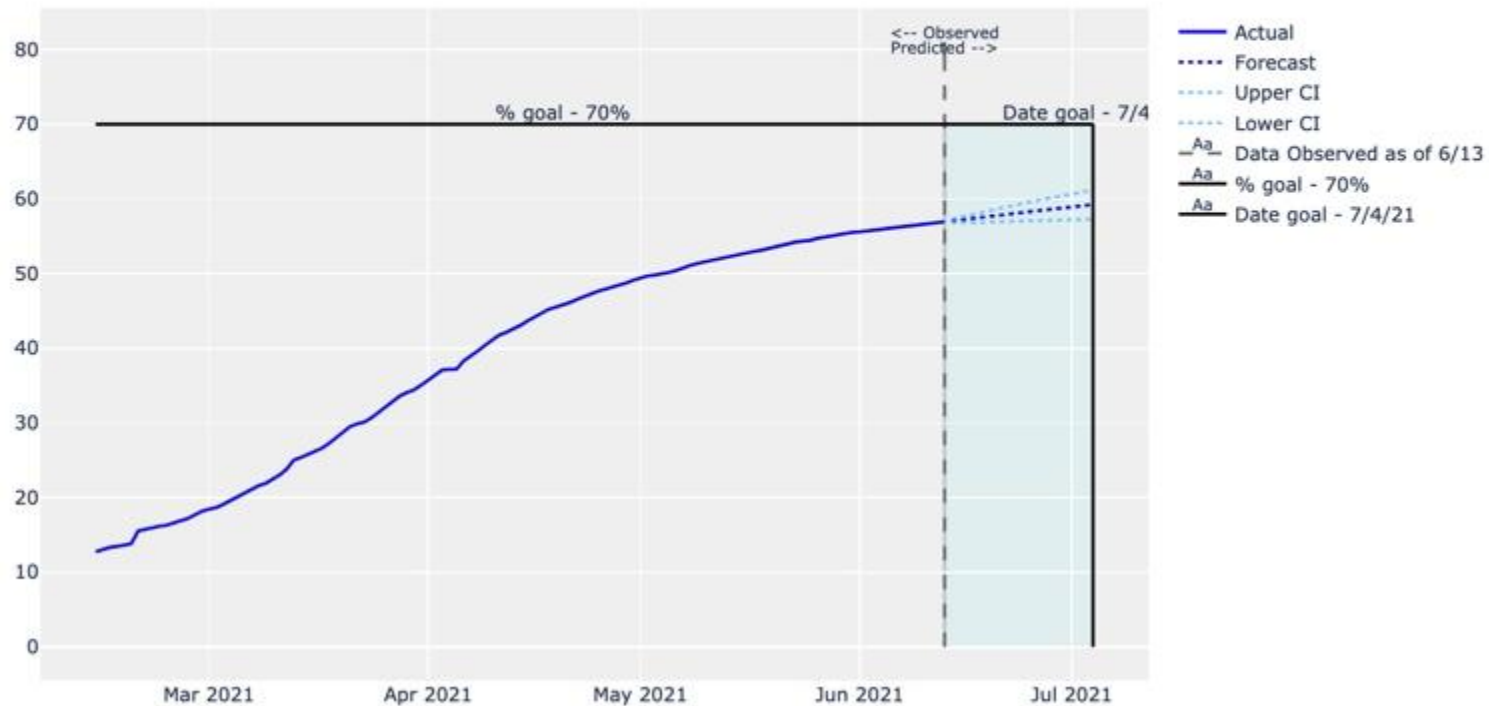


# Appendix



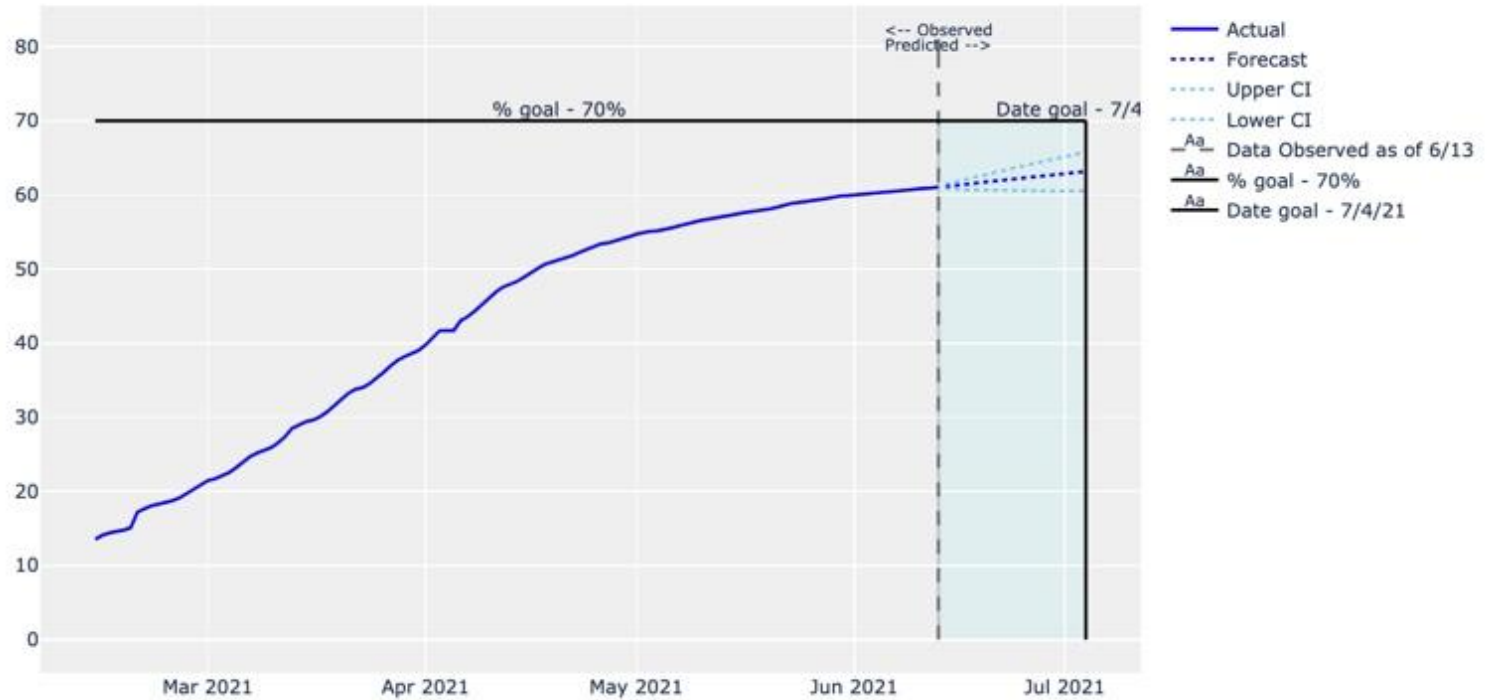
Forecast for 7/4/21: 59.244956235004196

### South Forecast to July 4th



Forecast for 7/4/21: 63.152182404186235

### Midwest Forecast to July 4th



Forecast for 7/4/21: 65.85890405105232

## West Forecast to July 4th

