

Connecticut Vaccination Summary

Ridgefield COVID-19 Task Force



Data downloaded from
<https://covid.cdc.gov/covid-data-tracker/#vaccinations>

Monday, March 01, 2021

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Connecticut ranks #5 among states in percent of population receiving at least one dose.

- 1 Connecticut ranks **#6** in administered doses as percent of population.
- 2 Connecticut ranks **#9** in delivered doses as percent of population.
- 3 Connecticut ranks **#11** in administered doses as percent of delivered doses.

$$\begin{array}{ccccc} \text{1} & & \text{2} & & \text{3} \\ \text{Shots Administered} & = & \text{Doses Received} & \times & \text{Administration Efficiency} \\ \left[\frac{\text{Administered Doses}}{\text{Population}} \right] & = & \left[\frac{\text{Delivered Doses}}{\text{Population}} \right] & \times & \left[\frac{\text{Administered Doses}}{\text{Delivered Doses}} \right] \\ \text{Driven By ----->} & & \text{Federal Government} & & \text{Local Governments} \end{array}$$



Connecticut and US Vaccination Summary

Connecticut (as of Monday March 01, 2021)	Cumulative	Daily
Doses Delivered	1,198,495	30,603
Doses Administered	1,031,305	21,218
Percent of Population Who Have Completed Vaccination	8.56%	
Percent of Population Who Have Started Vaccination	20.07%	
Connecticut Rank Among 50 States and DC	5	

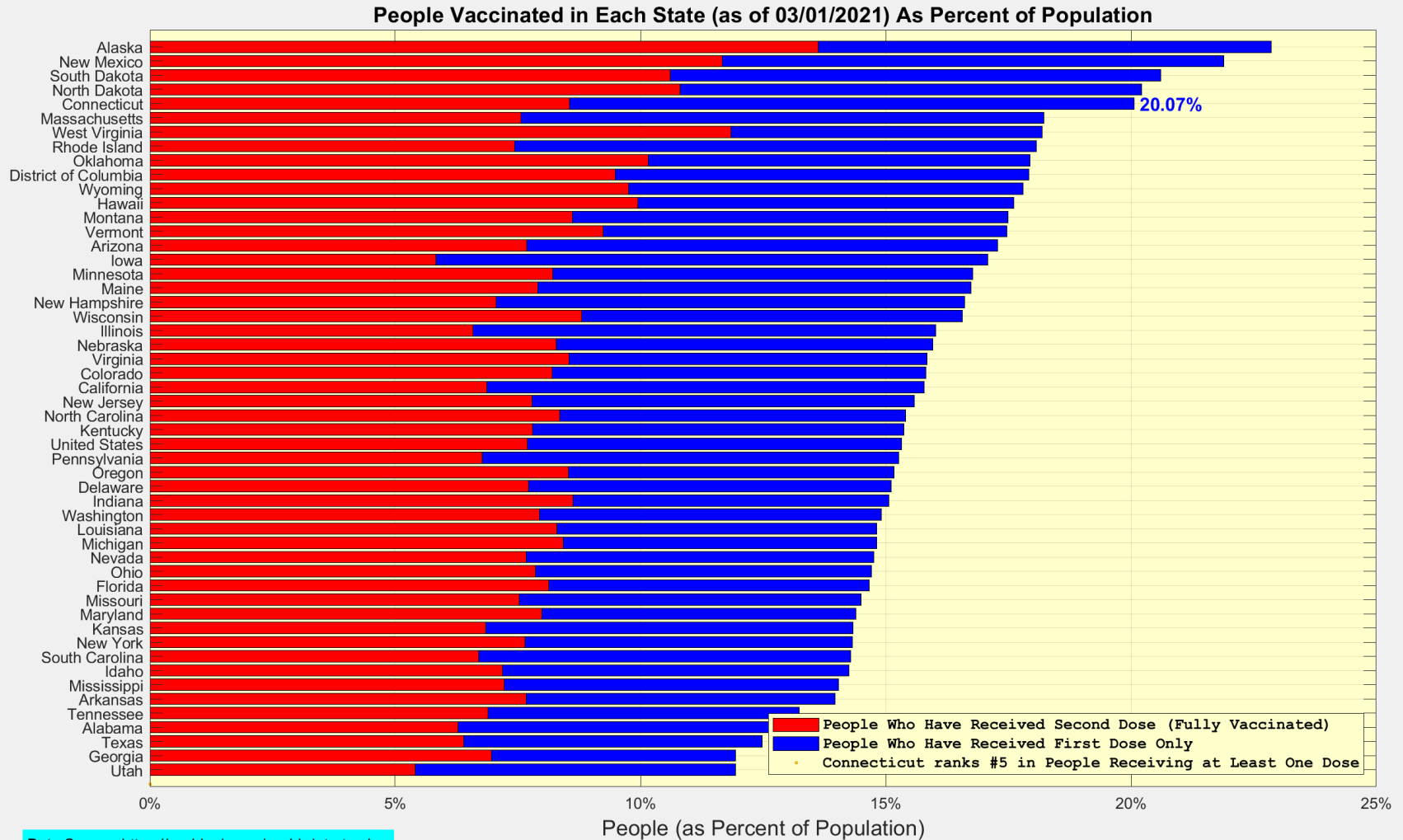
United States (as of Monday March 01, 2021)	Cumulative	Daily
Doses Delivered	96,402,490	3,028,079
Doses Administered	76,899,987	1,817,502
Percent of Population Who Have Completed Vaccination	7.69%	
Percent of Population Who Have Started Vaccination	15.33%	

Data Source: <https://covid.cdc.gov/covid-data-tracker/#vaccinations>.

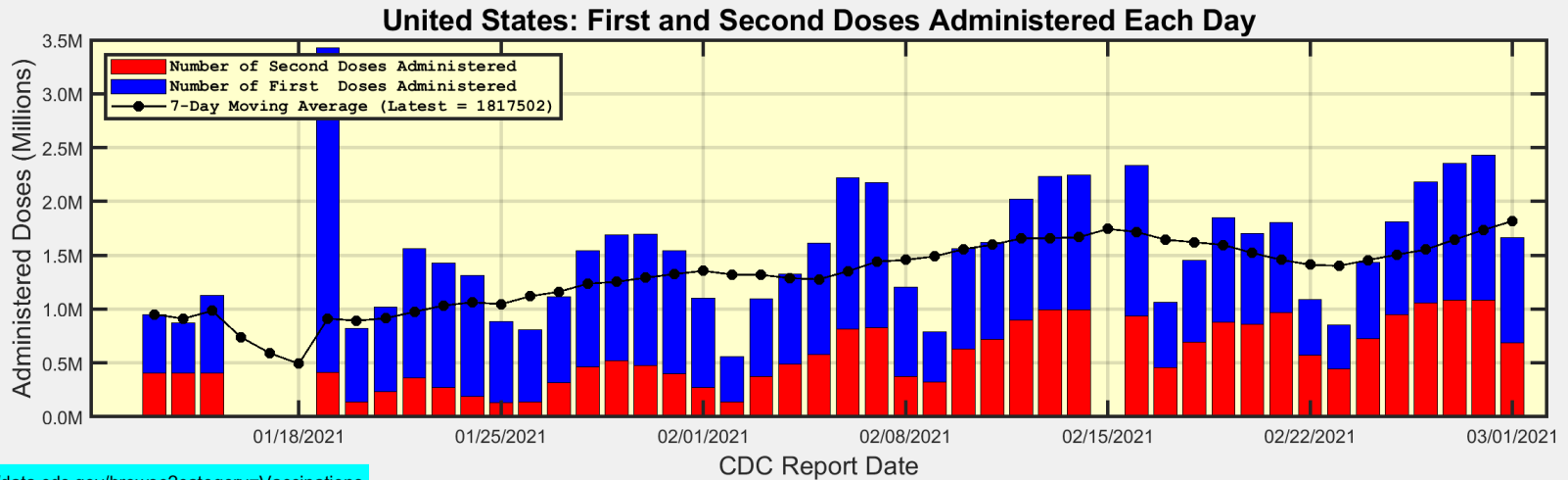
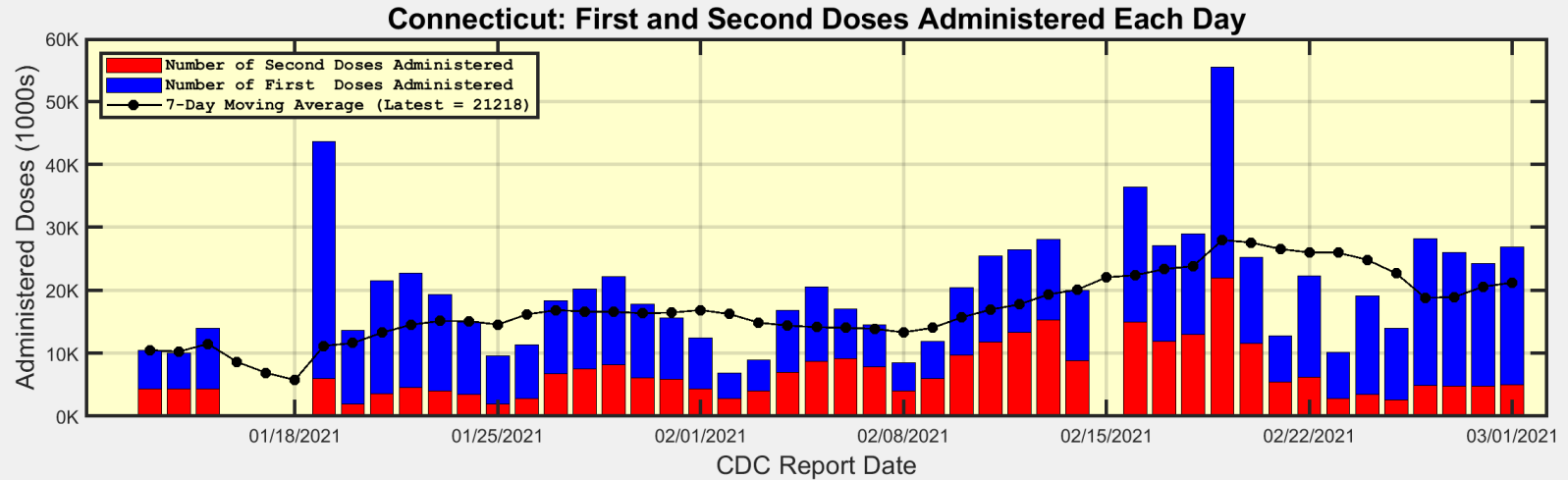
The Daily numbers are the most recent 7-day moving averages.



People Vaccinated in Each State as Percent of Population



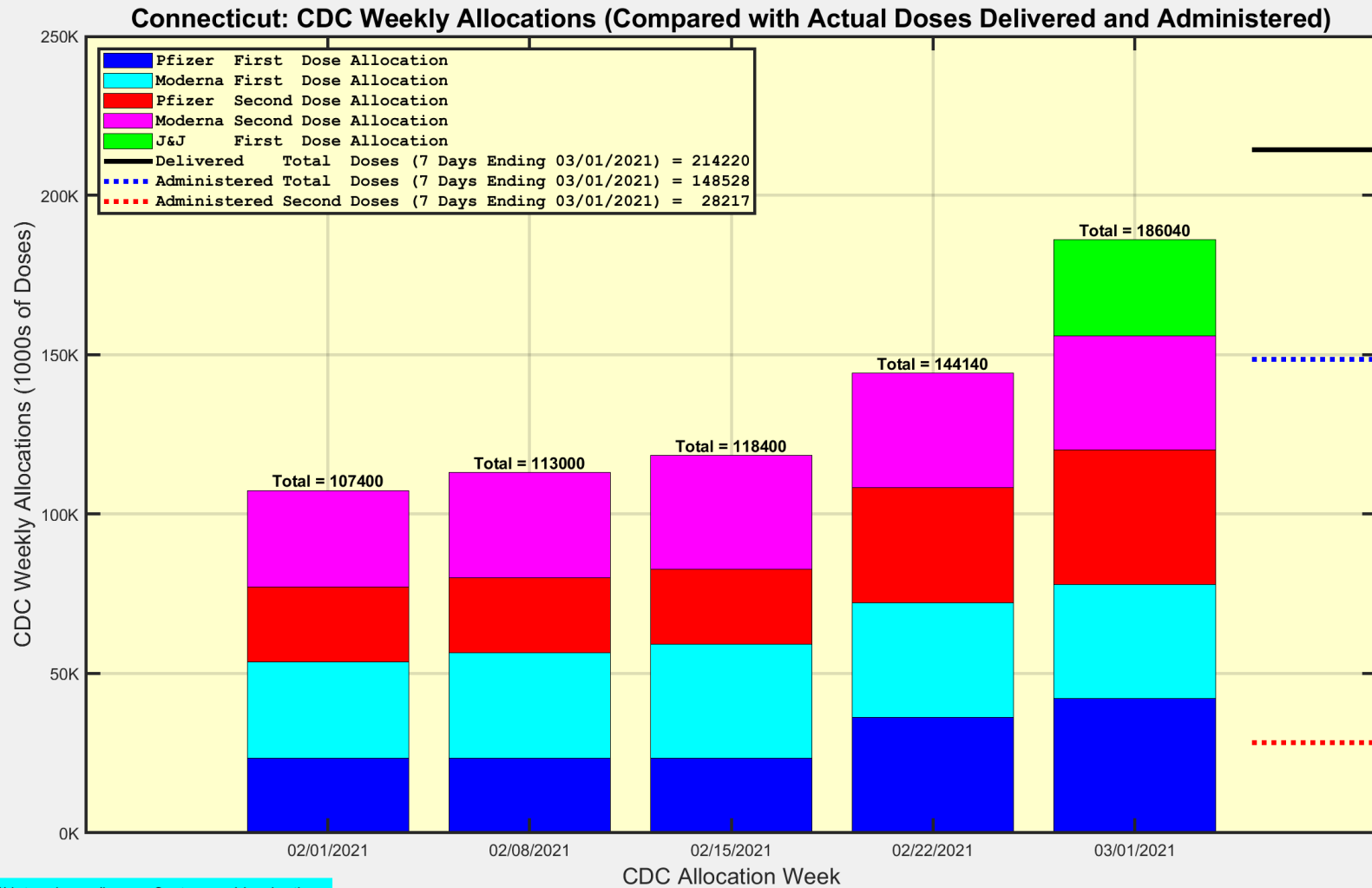
First and Second Doses Administered Each Day



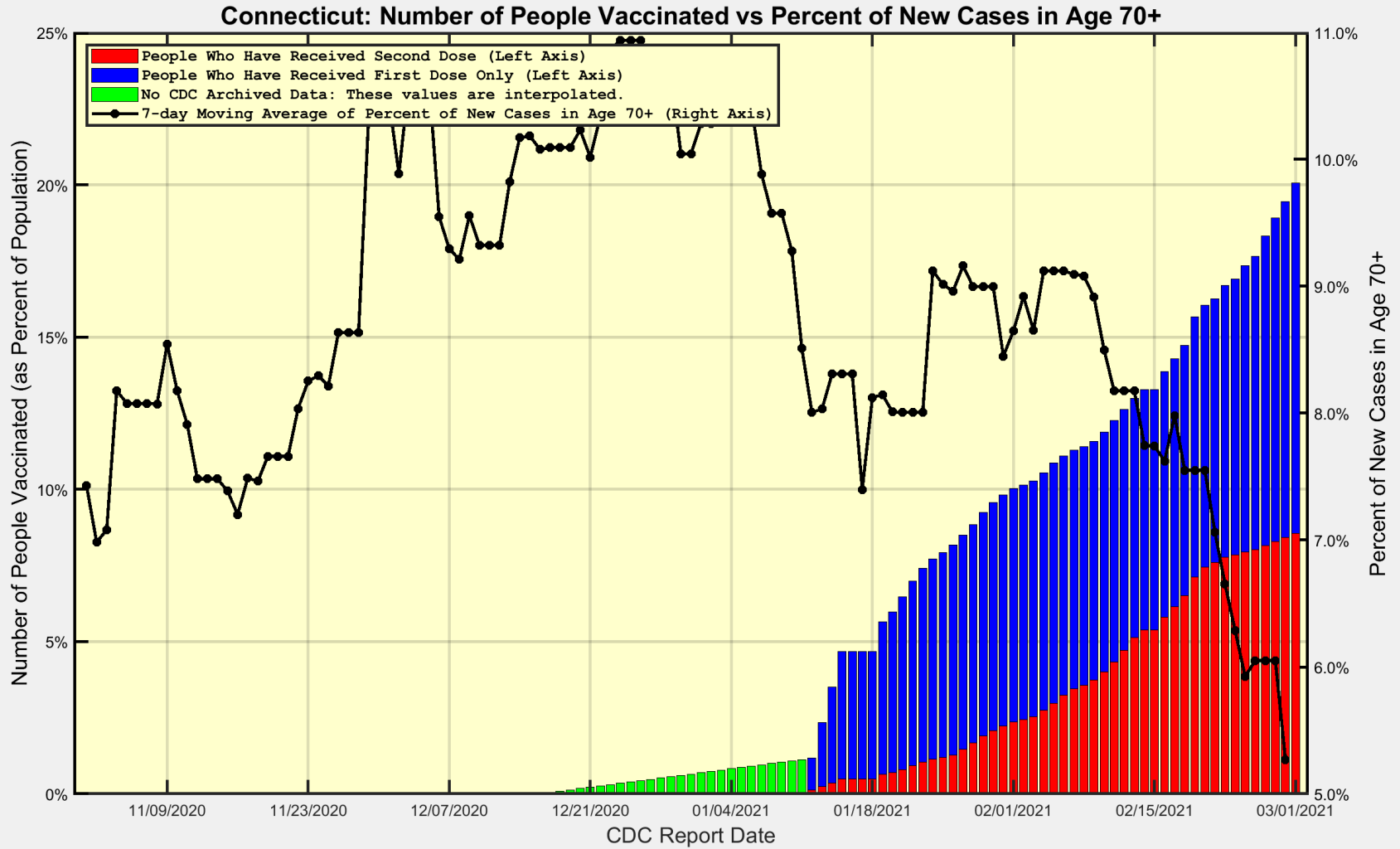
<https://data.cdc.gov/browse?category=Vaccinations>



Connecticut just received an allocation of 30,200 J&J vaccines for this coming week

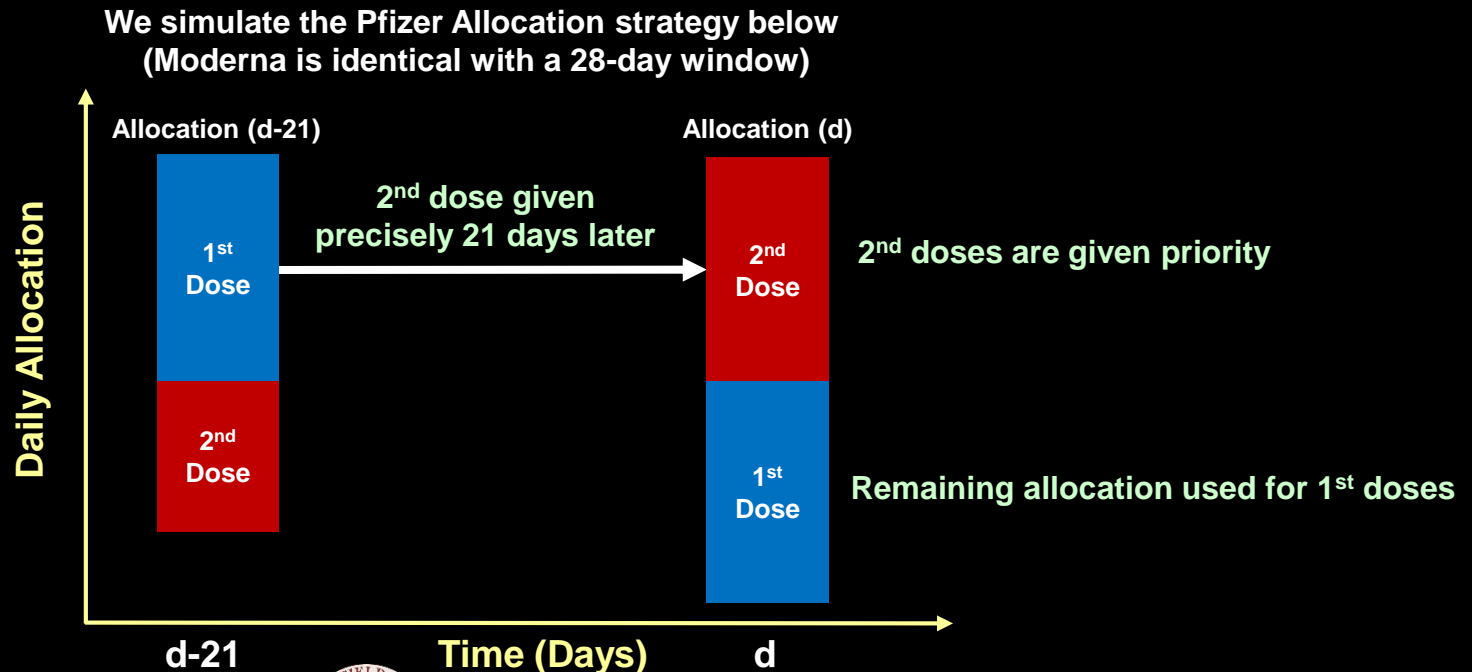


Connecticut new cases in Age 70+ are decreasing rapidly ... this could be due to increased vaccinations



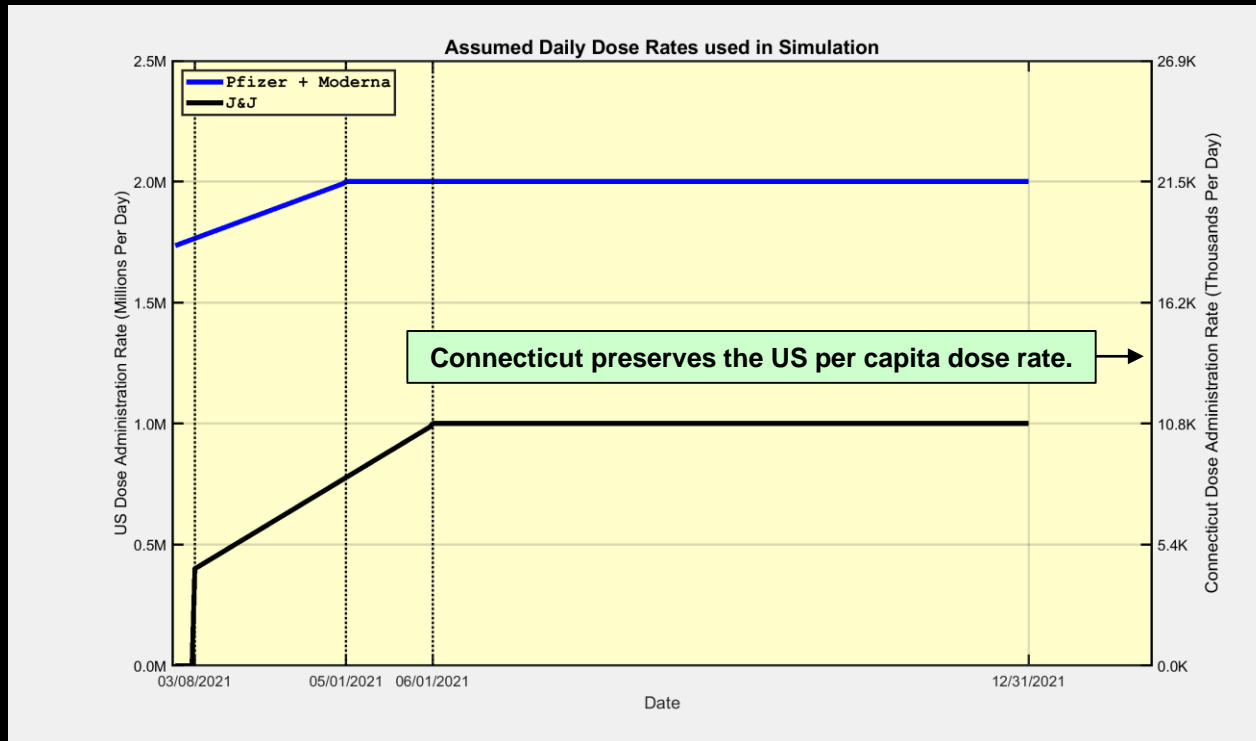
Simulation of Herd Immunity: Assumptions

1. Herd Immunity is achieved when 75% of the total population is fully vaccinated.
2. We replicate known history up to the first day of the simulation.
3. *We do not assume that people previously testing positive are immune ... they are still vaccinated.*
4. All residents eligible for their 2nd dose (21 or 28 days after 1st dose) will *receive it on the required day.*
5. Doses remaining after administering *all required 2nd doses are administered as 1st doses.*
6. Hence, we assume sufficient capacity to *administer all allocated doses without any delay or disposal.*
7. The administered doses are split evenly between Pfizer and Moderna.
8. The Johnson & Johnson vaccine becomes available on March 8 *with only one dose required.*



Simulation of Herd Immunity: Assumed Dose Rates

- The US increases Pfizer + Moderna Vaccines to 2M per day
 - There is a linear ramp-up from today (1.82M doses per day) to May 1 (2M doses per day)
- The Johnson & Johnson Vaccine becomes available on March 8
 - There is a linear ramp-up from March 8 (400K doses per day) to June 1 (1M doses per day)
 - *This results in 89.9M doses by June 30 ... consistent with J&J commitment of 100M doses by June 30*



Simulation of Herd Immunity

NOTE: This is a computer simulation based on assumptions that will likely change in the future.

Simulation of Connecticut Vaccination Rollout: Introduce J&J Vaccinations on 03/08/2021

