

Vaccine Status Over the Year

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Overview

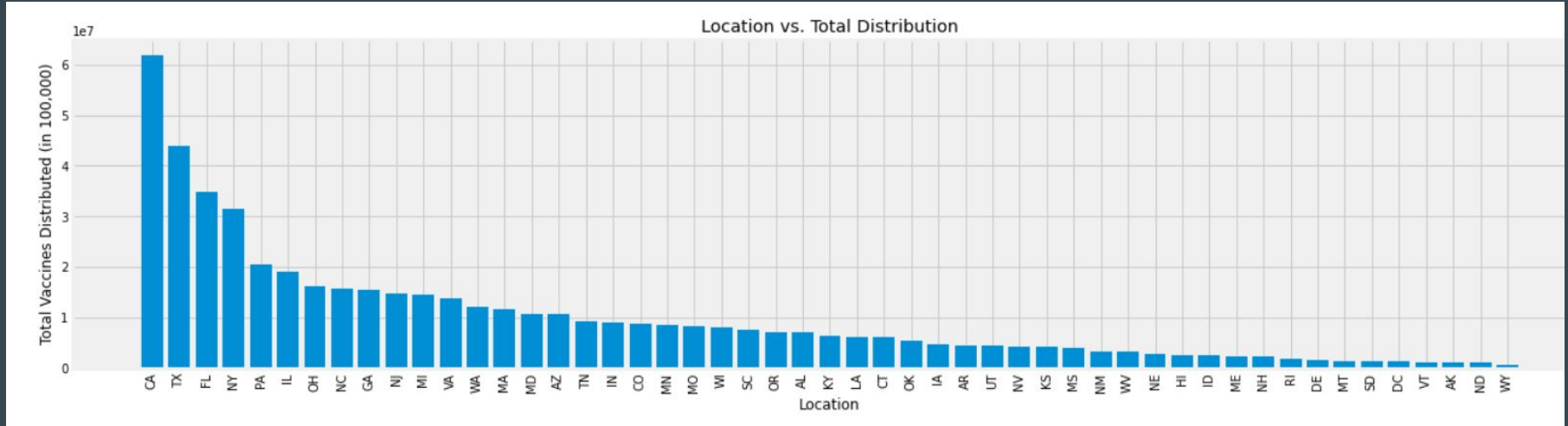
- Dataset
 - Looks into different statistics about the vaccination
 - Amounts distributed
 - Amounts administered
 - Amounts of fully vaccinated
- What we are trying to analyze
 - The major breakdown of the vaccine by location, time, which vaccine



Variables

- **Date** - Date
- **MMWR_week** - Morbidity and Mortality Weekly Report (MMWR) (Early data in the set has a later MMWR week because vaccine came out late in the year last year)
- **Location** - State/Territory/Federal Entity
- **Distributed** - Total number of distributed doses
- **Distributed_Janssen/Moderna/Pfizer** - Total number of doses delivered for each respective company
- **Distributed_per_100k** - Delivered doses per 100,000 census population
- **Distributed_per_100k_12Plus/18Plus/65Plus** - Total number of delivered doses per 100,000 in each age group
- **Administered** - Total number of administered vaccines based on state where administered
- **Administered_12Plus/18Plus/65Plus** - Total number of doses administered to people in each age group based on the jurisdiction where recipient lives
- **Administered_Janssen/Moderna/Pfizer** - Total number of doses administered for each company
- **Admin_per_100k** - Total number of doses administered per 100,000 census population based on the jurisdiction where recipient lives
- **Admin_per_100k_12Plus/18Plus/65Plus** - Total number of doses administered to people in each age group per 100,000 each age group population
- **Recip_Administered** - Total number of administered vaccines based on the jurisdiction of residence
- **Administered_Dose1_Recip** - Total number of people with at least one dose based on the jurisdiction where recipient lives
- **Administered_Dose1_Pop_Pct** - Percent of population with at least one dose based on the jurisdiction where recipient lives
- **Administered_Dose1_Recip_12Plus/18Plus/65Plus** - Total number of people in each age group with at least one dose based on the jurisdiction where recipient lives
- **Administered_Dose1_Recip_12Plus/18Plus/65PlusPop_Pct** - Percent of each age group population with at least one dose based on the jurisdiction where recipient lives
- **Series_Complete_Yes** - Total number of people who are fully vaccinated (have second dose of a two-dose vaccine or one dose of a single-dose vaccine) based on the jurisdiction where recipient lives
- **Series_Complete_Pop_Pct** - Percent of people who are fully vaccinated (have second dose of a two-dose vaccine or one dose of a single-dose vaccine) based on the jurisdiction where recipient lives
- **Series_Complete_12Plus/18Plus/65Plus** - Total number of people in each age group who are fully vaccinated (have second dose of a two-dose vaccine or one dose of a single-dose vaccine) based on the jurisdiction where recipient lives
- **Series_Complete_12Plus/18Plus/65PlusPop_Pct** - Percent of people in each age group who are fully vaccinated (have second dose of a two-dose vaccine or one dose of a single-dose vaccine) based on the jurisdiction where recipient lives
- **Series_Complete_Janssen/Moderna/Pfizer** - Total number of people who are fully vaccinated with each vaccine based on the jurisdiction where recipient lives
- **Series_Complete_Janssen/Moderna/Pfizer_12Plus/18Plus/65Plus** - Total number of people in each age group who are fully vaccinated with the each vaccine based on the jurisdiction where recipient lives
- **Additional_Doses** - Total number of people who are fully vaccinated and have received a booster (or additional) dose.
- **Additional_Doses_Vax_Pct** - Percent of people who are fully vaccinated and have received a booster (or additional) dose.
- **Additional_Doses_18Plus/50Plus/65Plus** - Total number of people in each age group that are fully vaccinated and have received a booster (or additional) dose.
- **Additional_Doses_18Plus/50Plus/65Plus_Vax_Pct** - Percent of people in each age group who are fully vaccinated and have received a booster (or additional) dose.
- **Additional_Doses_Moderna/Pfizer/Janssen** - Total number of fully vaccinated people who have received a booster from any company (or additional) dose.

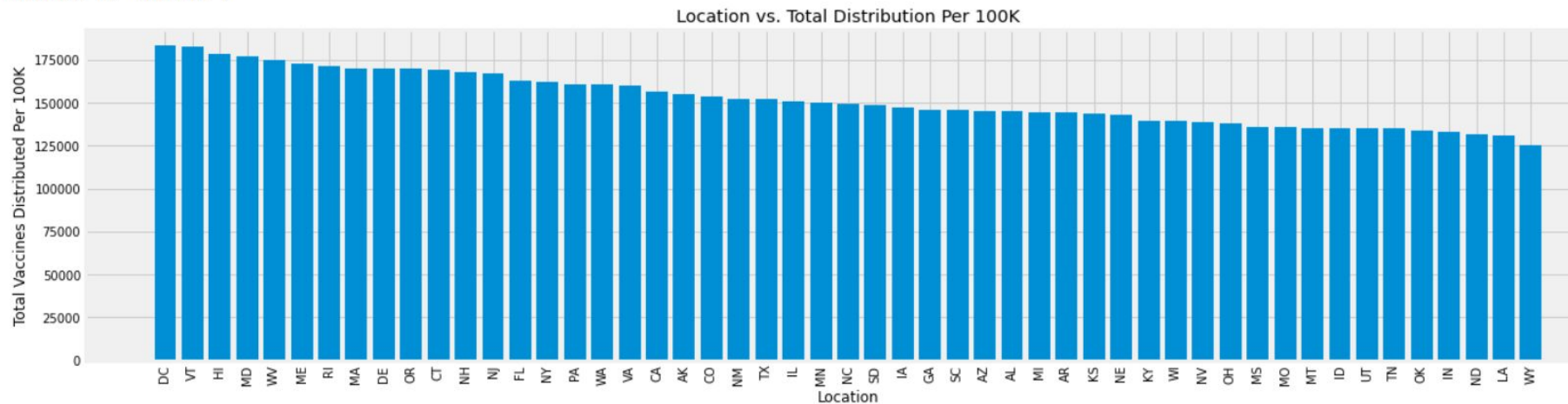
What is the total distribution based on location?



- California is the highest total distribution
- Wyoming is lowest total distribution
 - Higher due to population?

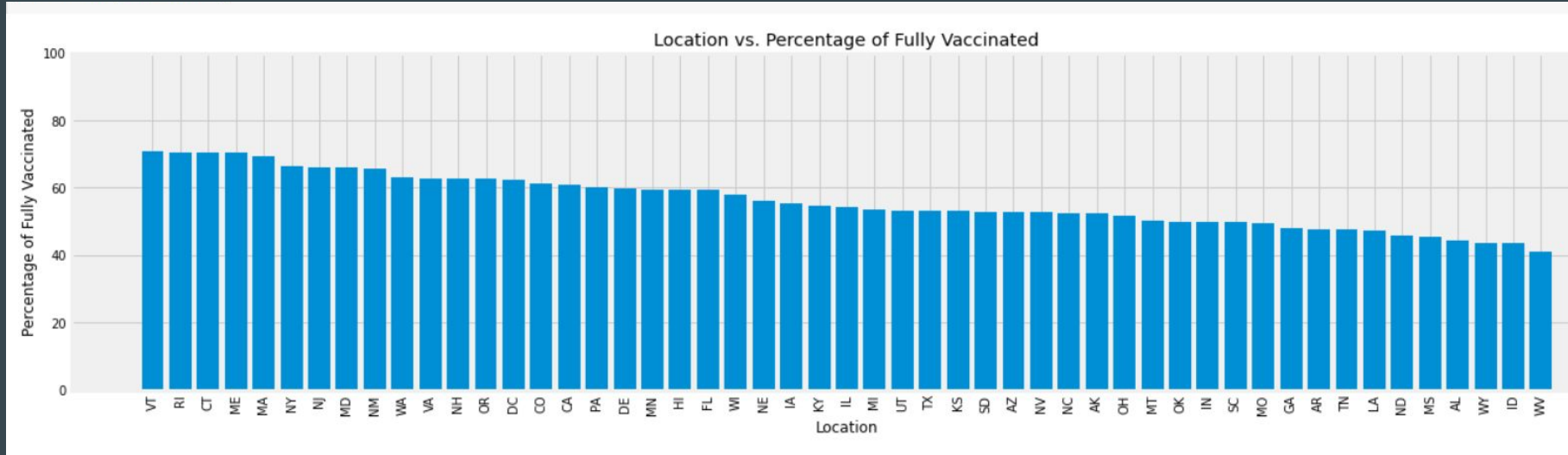
What is the total distribution per 100K vs. Location?

Text(0.5, 0, 'Location')



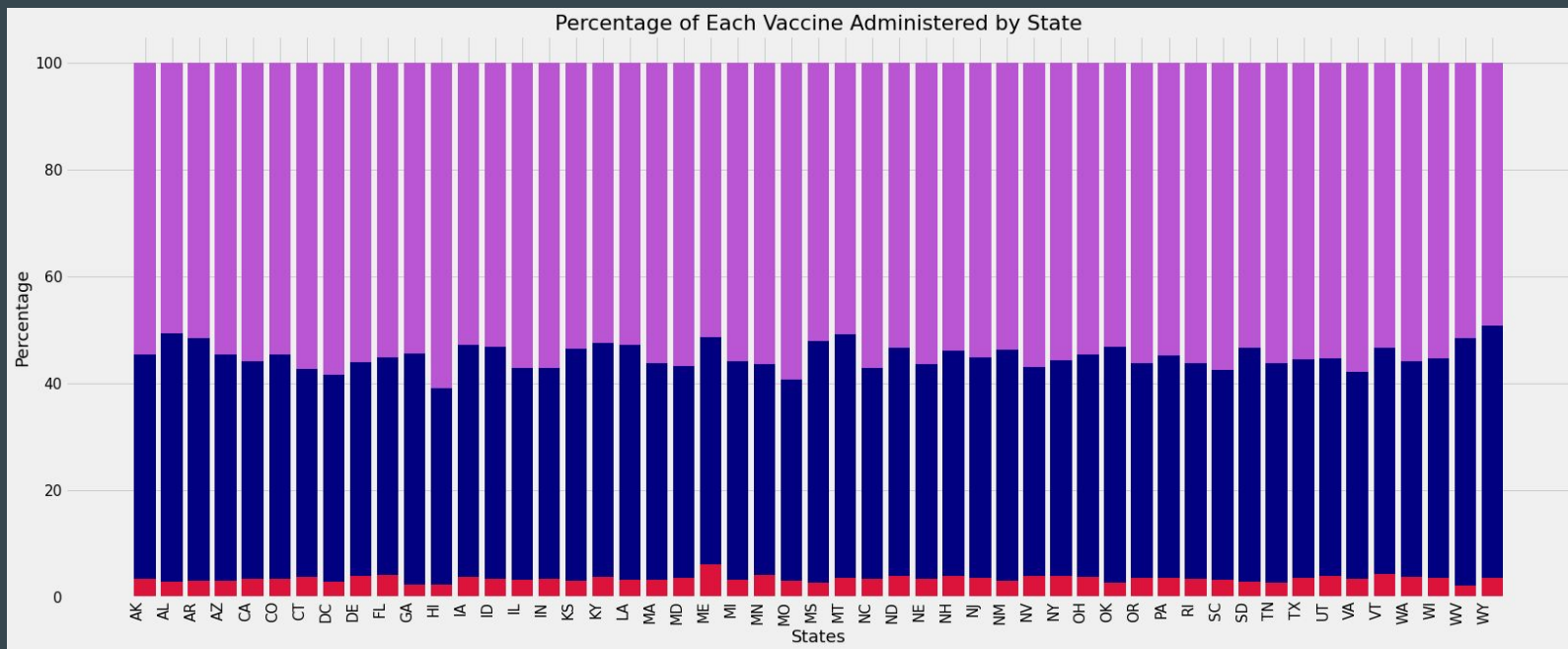
- DC has the highest total distribution per 100K
- Wyoming being the lowest distributed per 100K

What is the breakdown of fully vaccinated by location?



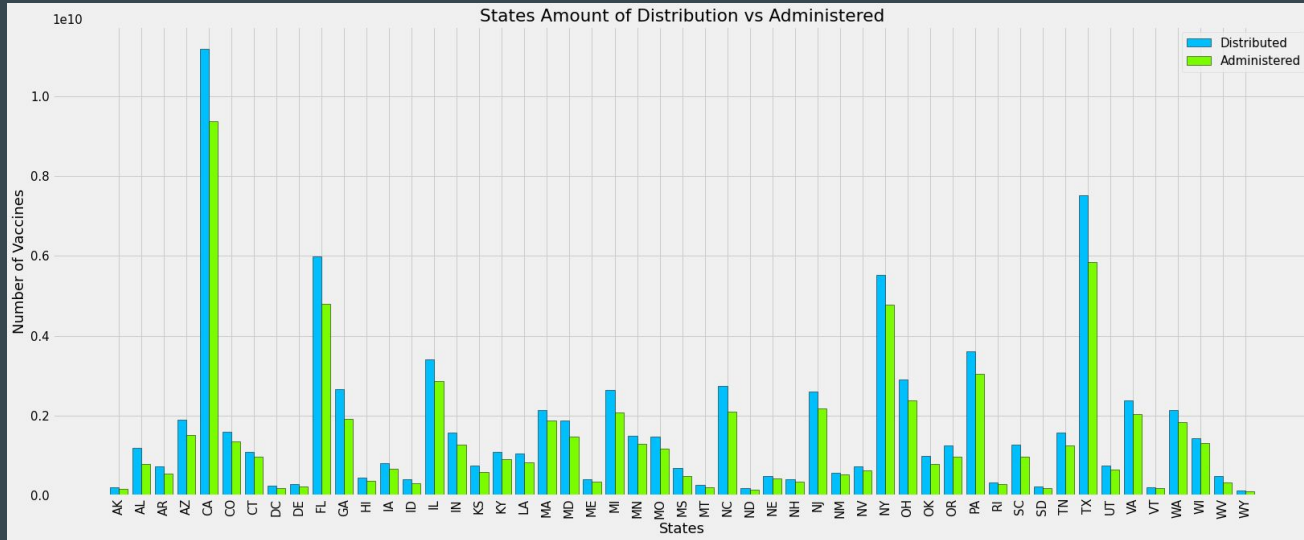
- Vermont is highest percentage of fully vaccinated
- West Virginia has the lowest percentage of fully vaccinated

Percentage of Each Vaccine for Each State



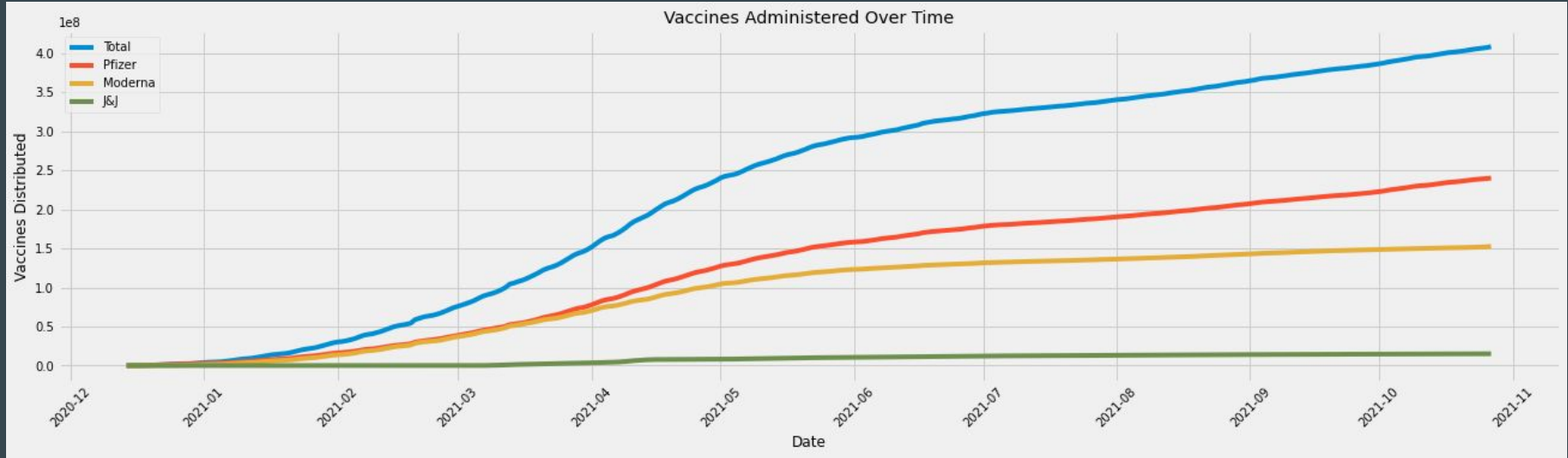
- Pfizer has the highest percentage administered for each state, followed by Moderna, then J&J
 - Shows some strong consistency between people across the states in which vaccine they're choosing.

What is the comparison of distributed vs. administered by state?



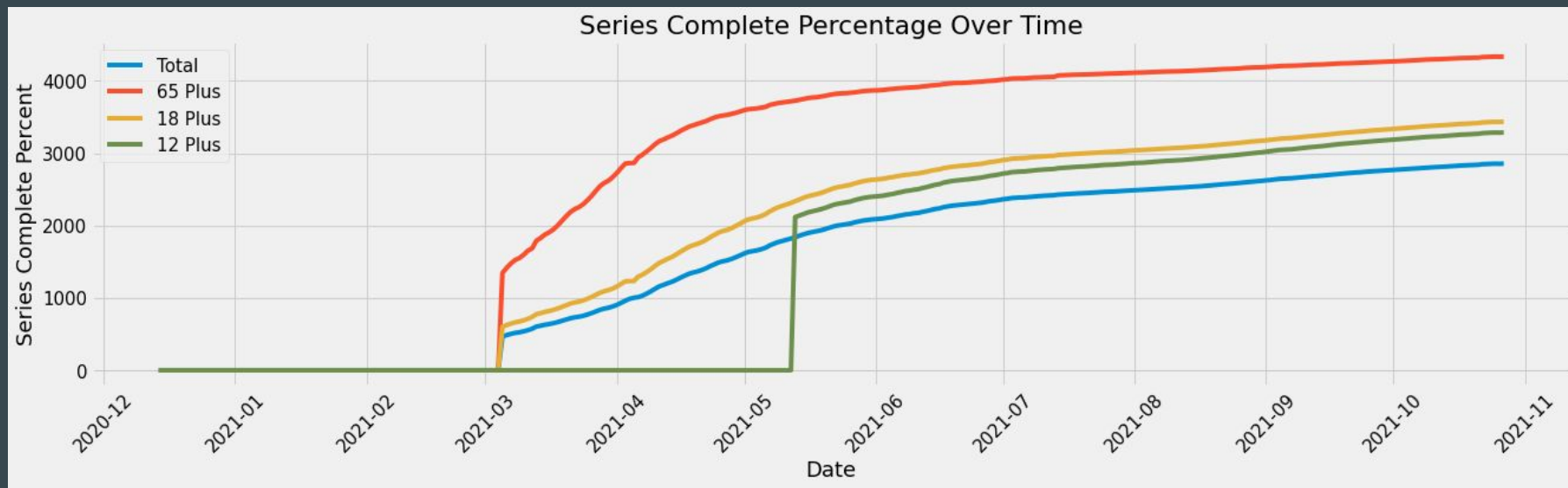
- As expected there is more Distributed to the states than administered
 - This Graph shows consistency among the ratio of distributed to administered across the states

What is the timeline of vaccines administered over time?



- Johnson and Johnson has not taken off as much as Pfizer and Moderna
 - Possibly from problem that had occurred with this vaccine in the beginning
- Pfizer seems to be the vaccine most gotten

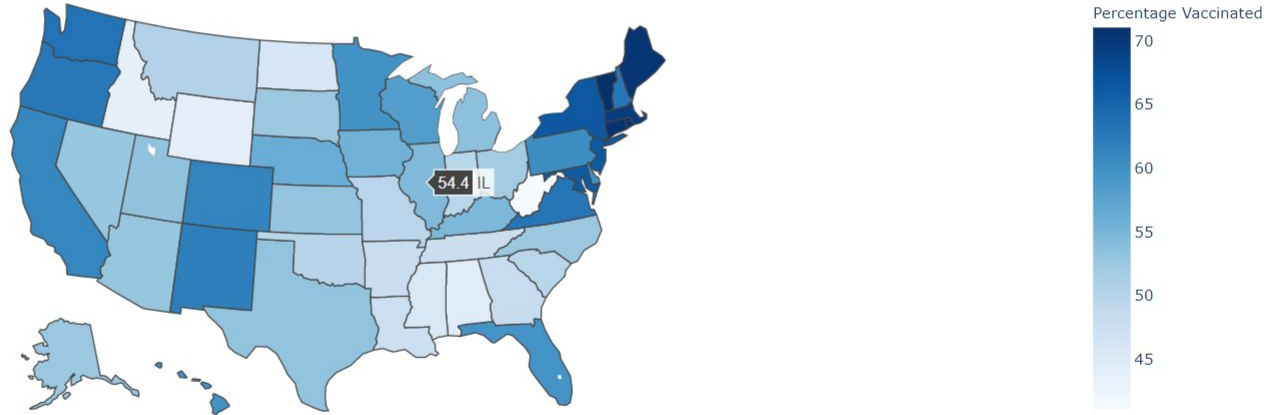
Series Complete Percentage Over Time



- 12 Plus seemed to have a very rapid increase around May 2021
- 65 Plus having the highest percentage over time

What is the vaccinated percentage by state?

Vaccine Percentages by State



- PA is within the 60% fully vaccinated range
- Vermont is within the 70% fully vaccinated range
- West Virginia is below the 45% fully vaccinated range