

COVID-19 Modeling

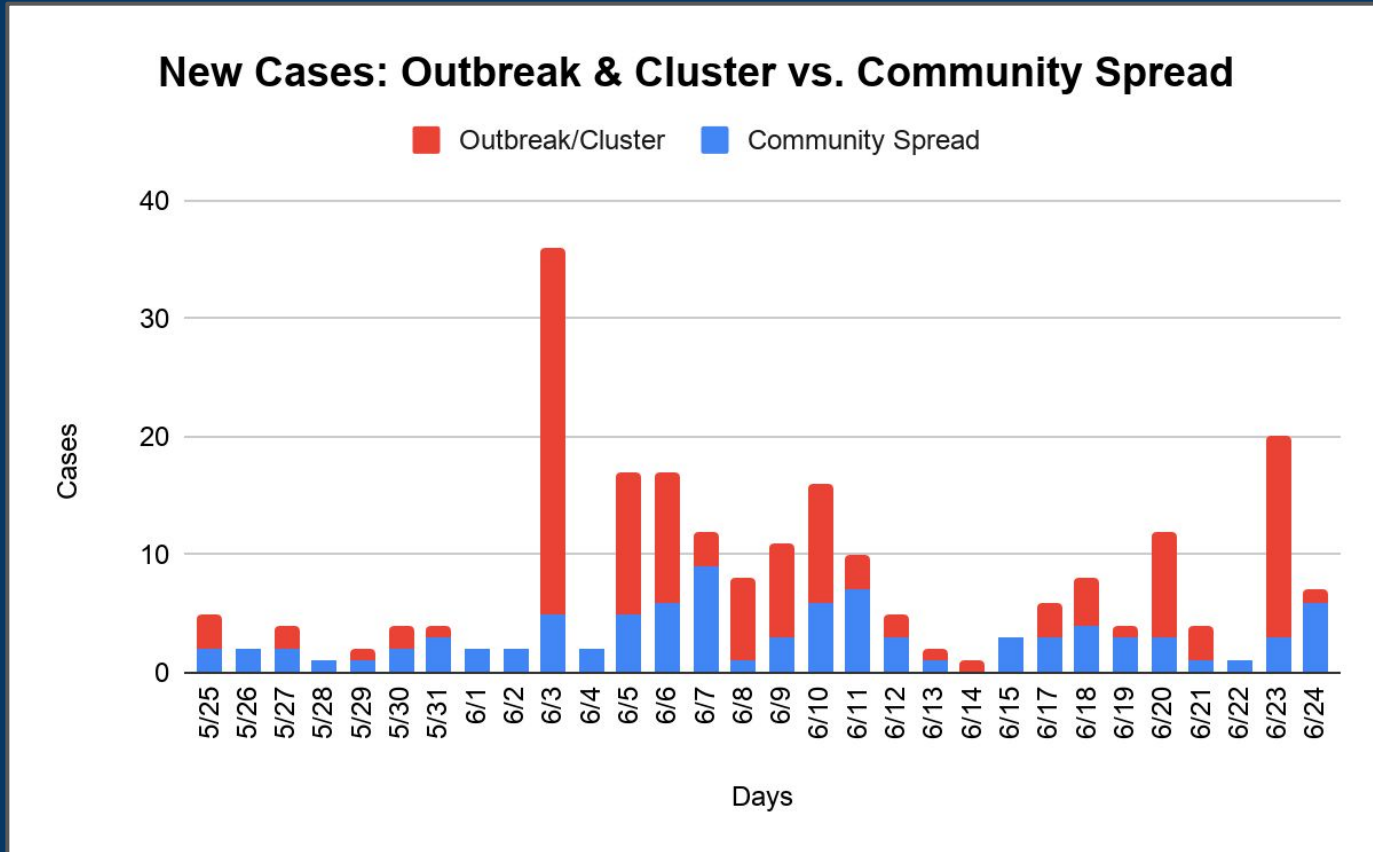
June 26, 2020

Presentation available at:
dfr.vermont.gov

Weekly Data

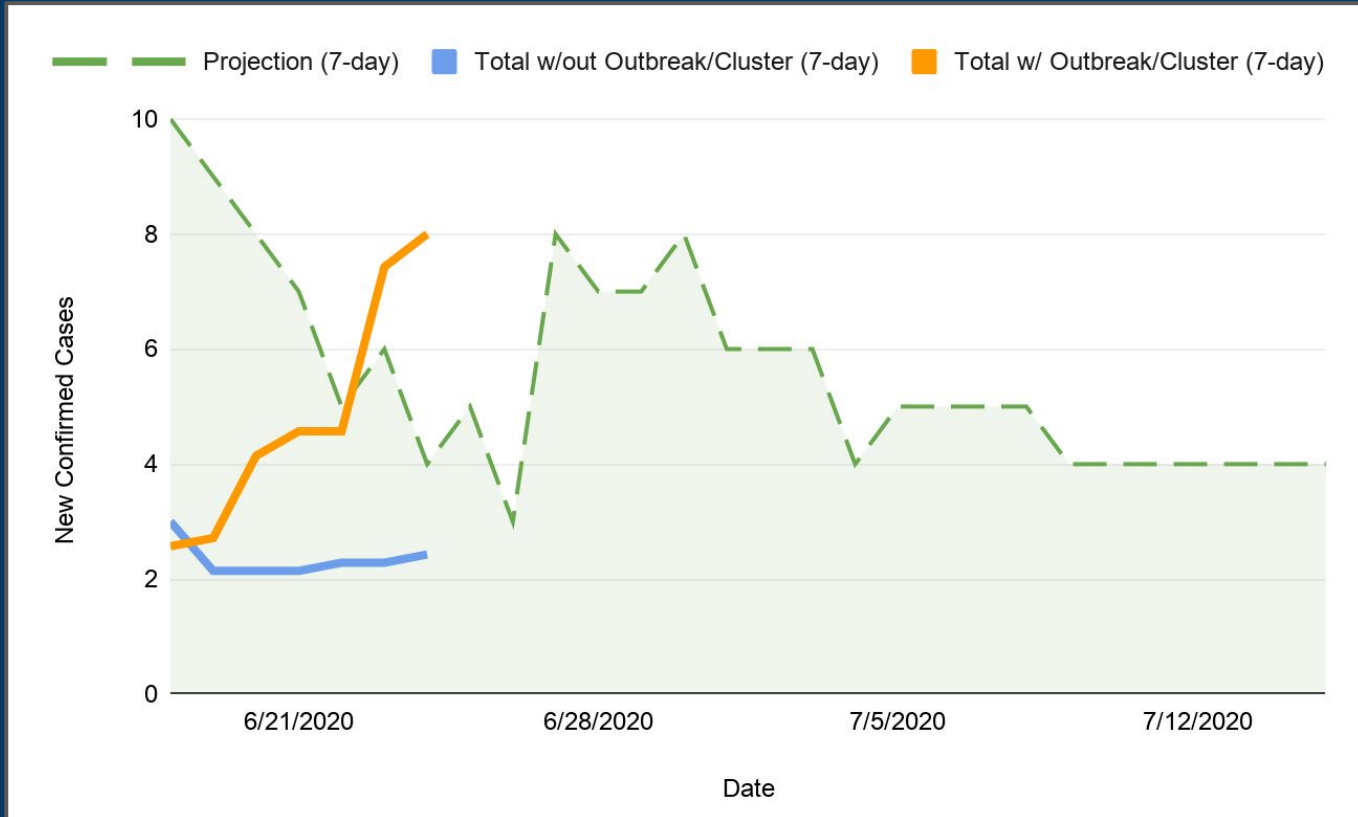
June 19, 2020 to June 25, 2020

Vermont Disease Growth

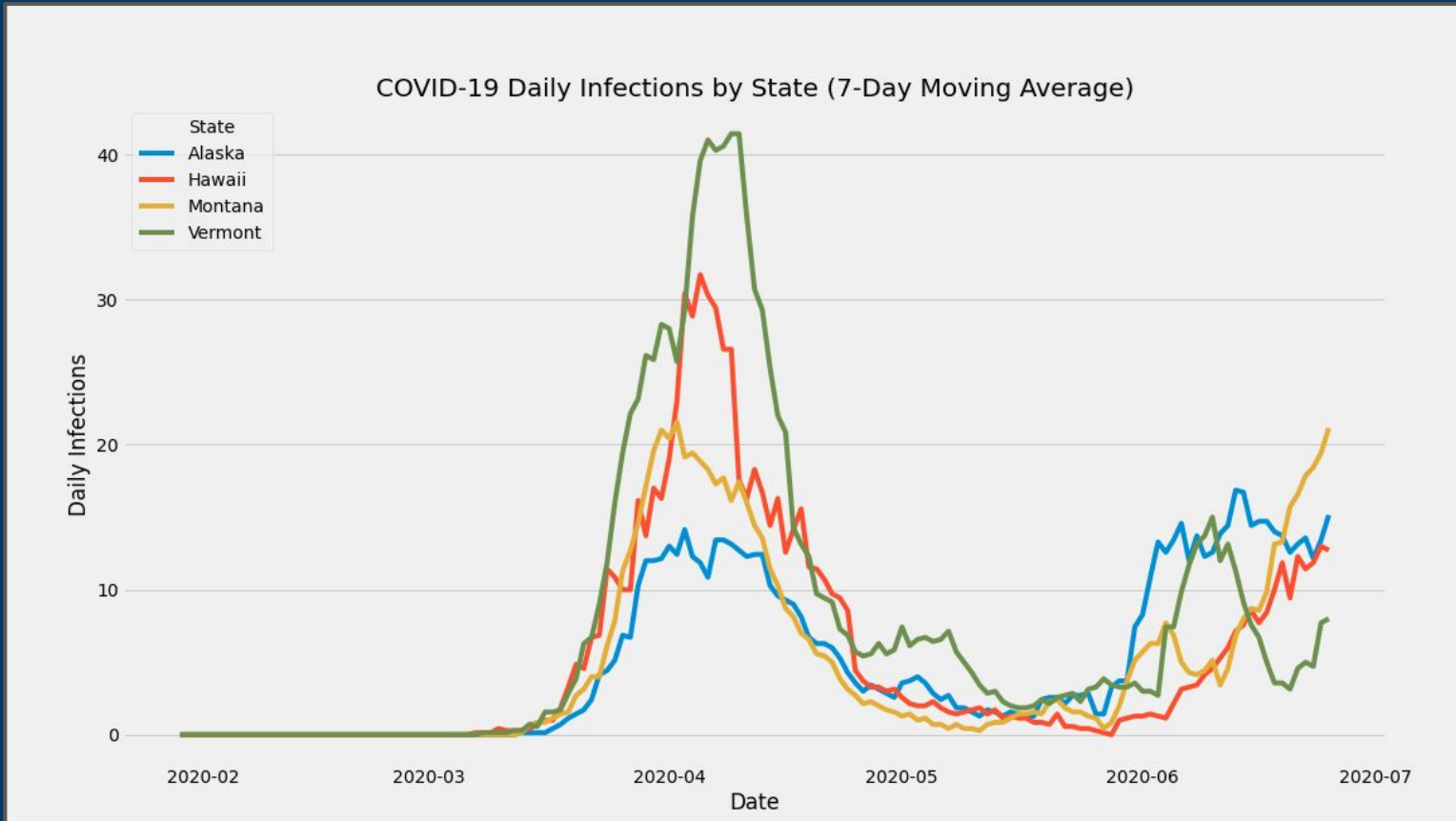


Forecast vs Actual June 18th to July 15th

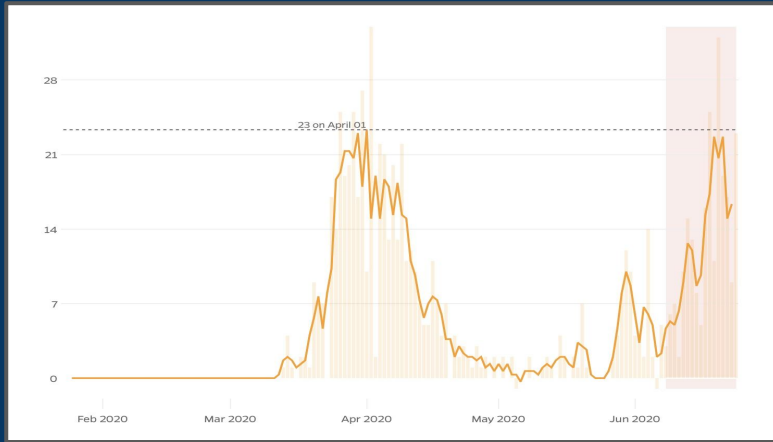
7-Day Rolling Average



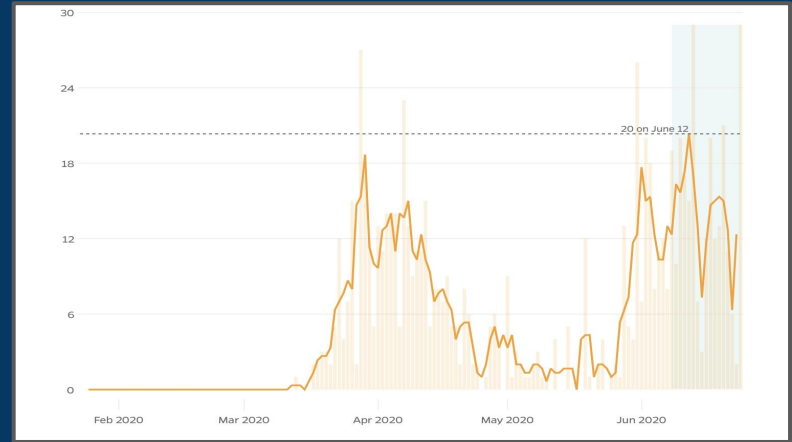
Context: First Wave, Low-level Case Growth, Outbreaks/Clusters



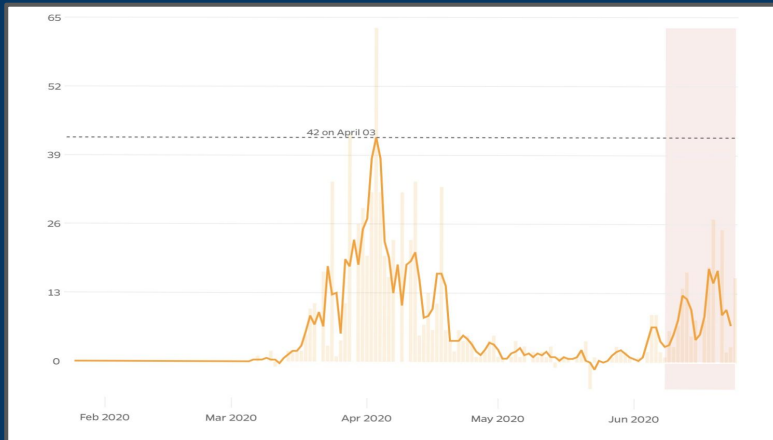
Montana



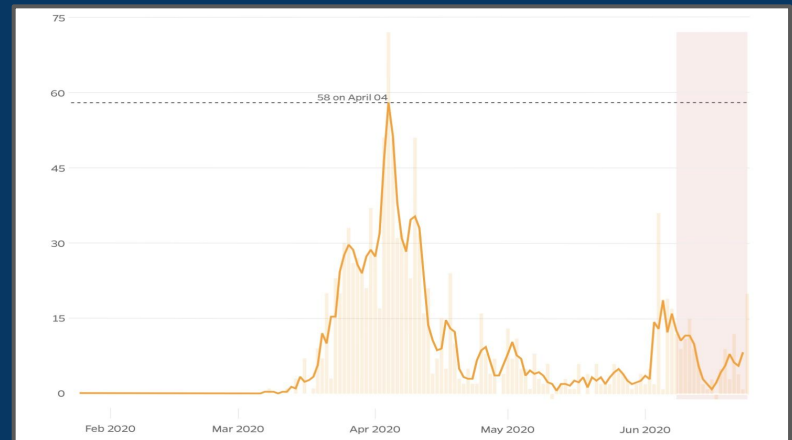
Alaska



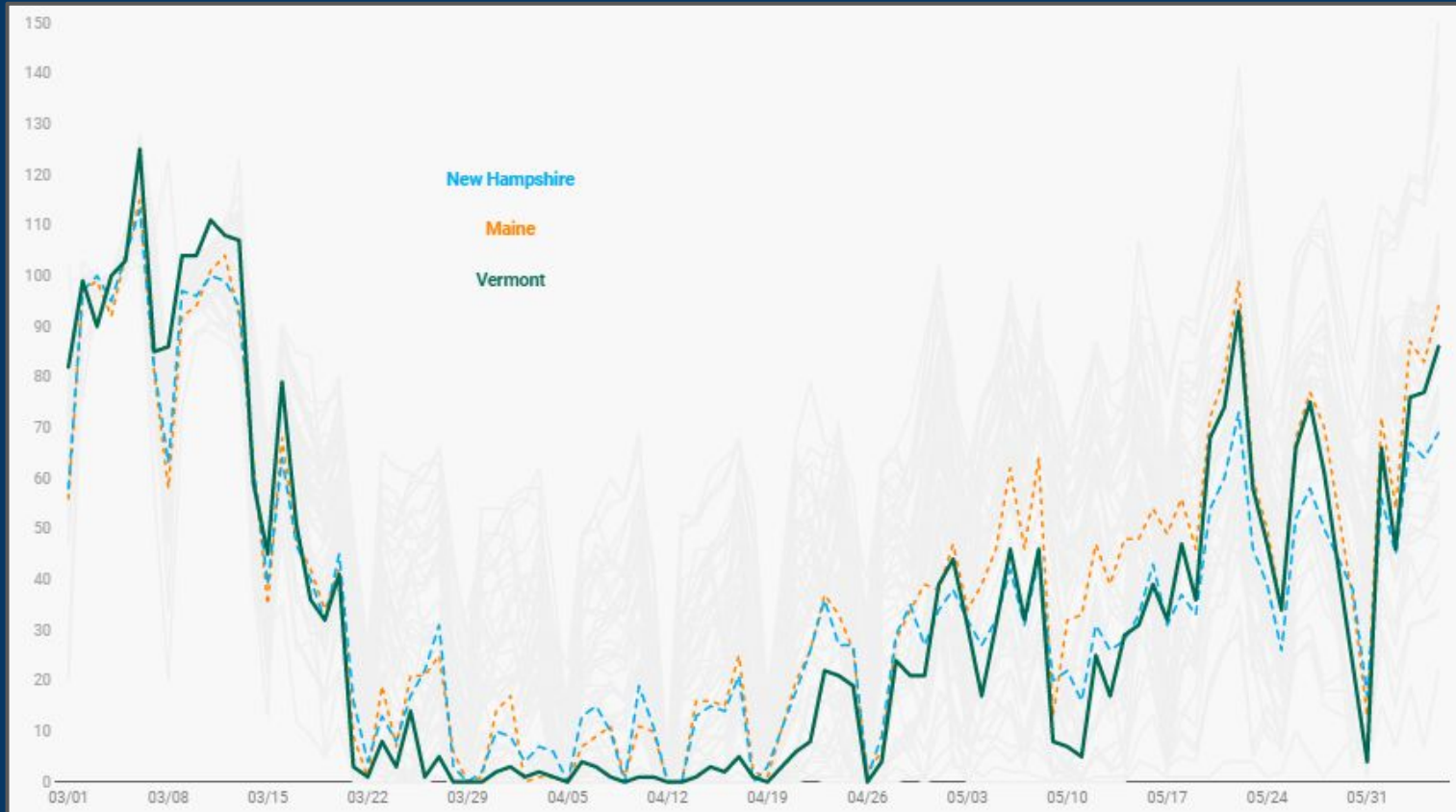
Hawaii



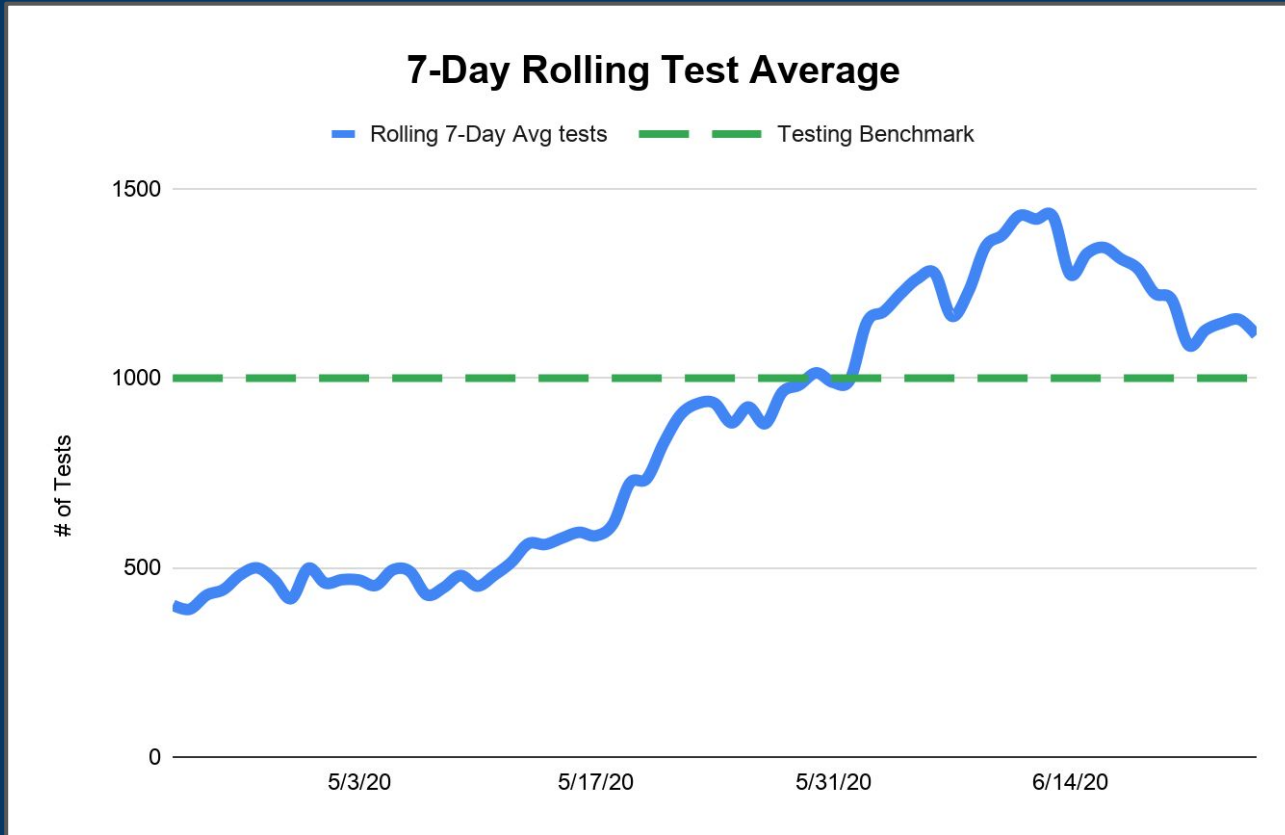
Vermont



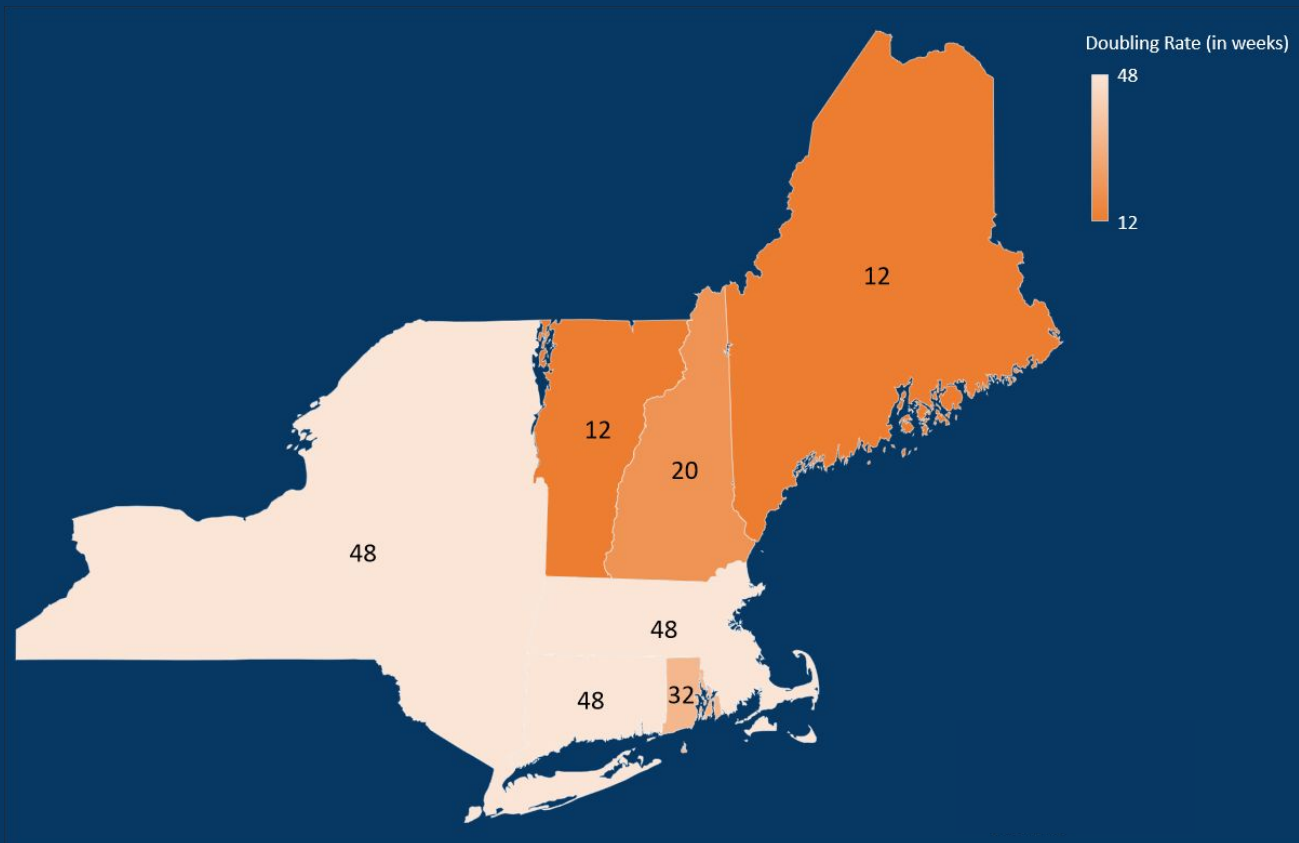
Mobility Data: Continued Increased Movement



Vermont COVID-19 PCR Testing



Vermont's Doubling Rate: 12 Weeks



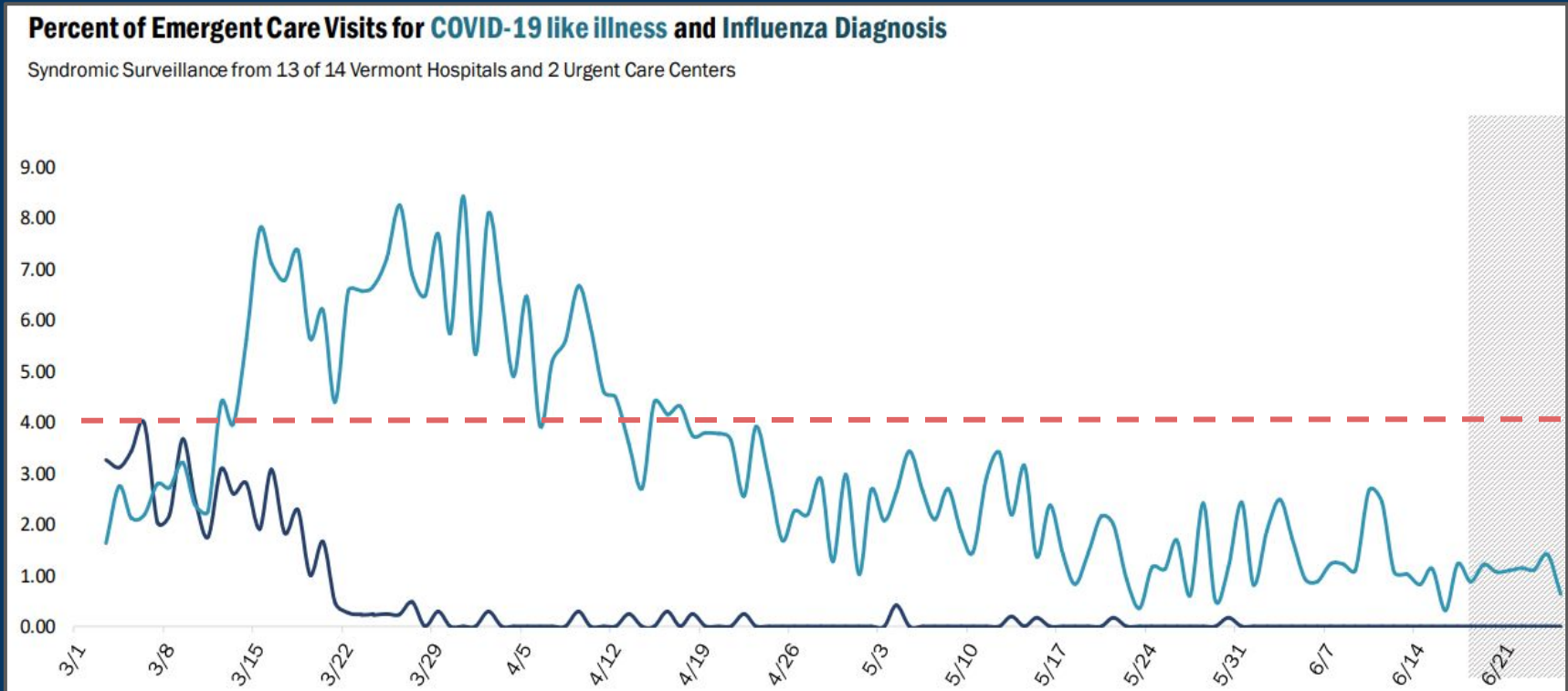
RESTART VERMONT

Reopening Metrics

1. Syndromic Surveillance
2. Viral Growth & Reproductive Rates
3. Percentage of New Positive Tests
4. Hospital & Critical Care Bed Capacity

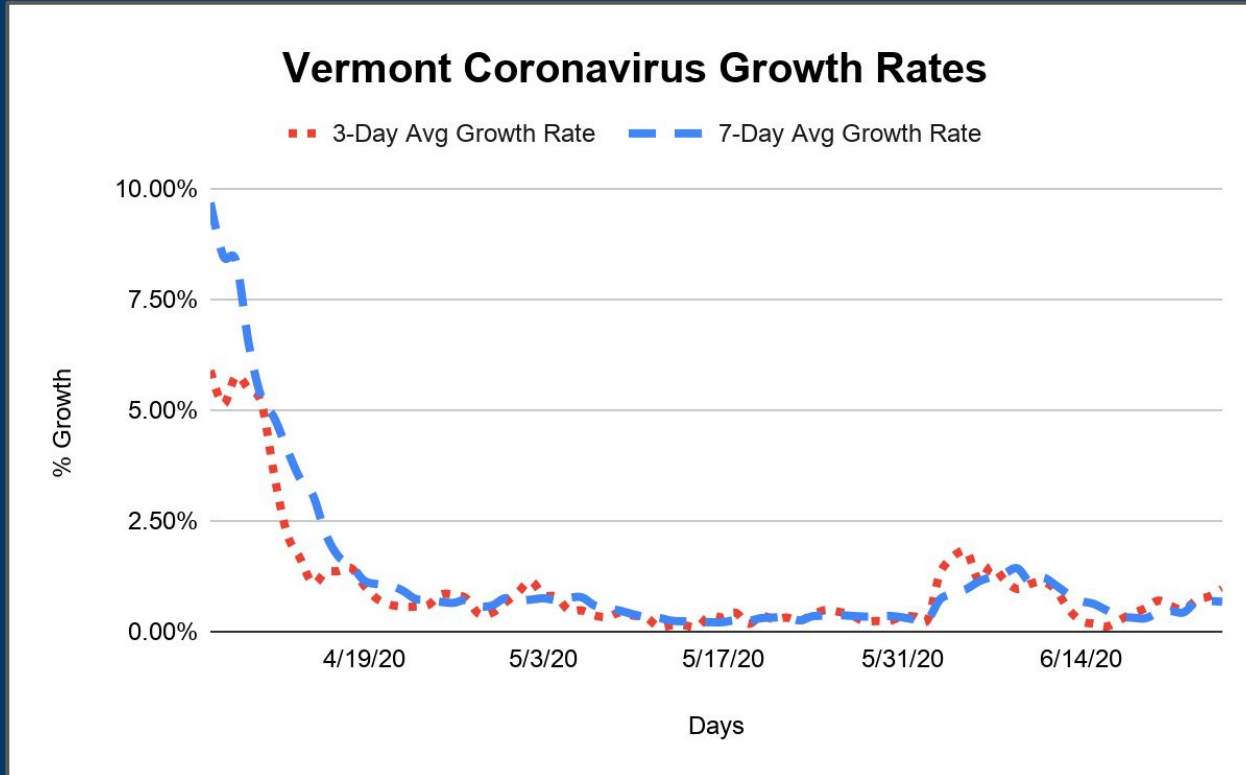
Data Point 1: Syndromic Surveillance

- **Summary:** Percentage of visits with COVID-19 like illness and Influenza diagnosis
- **Warning Flag:** Percentage of visits exceeding 4% for multiple consecutive days



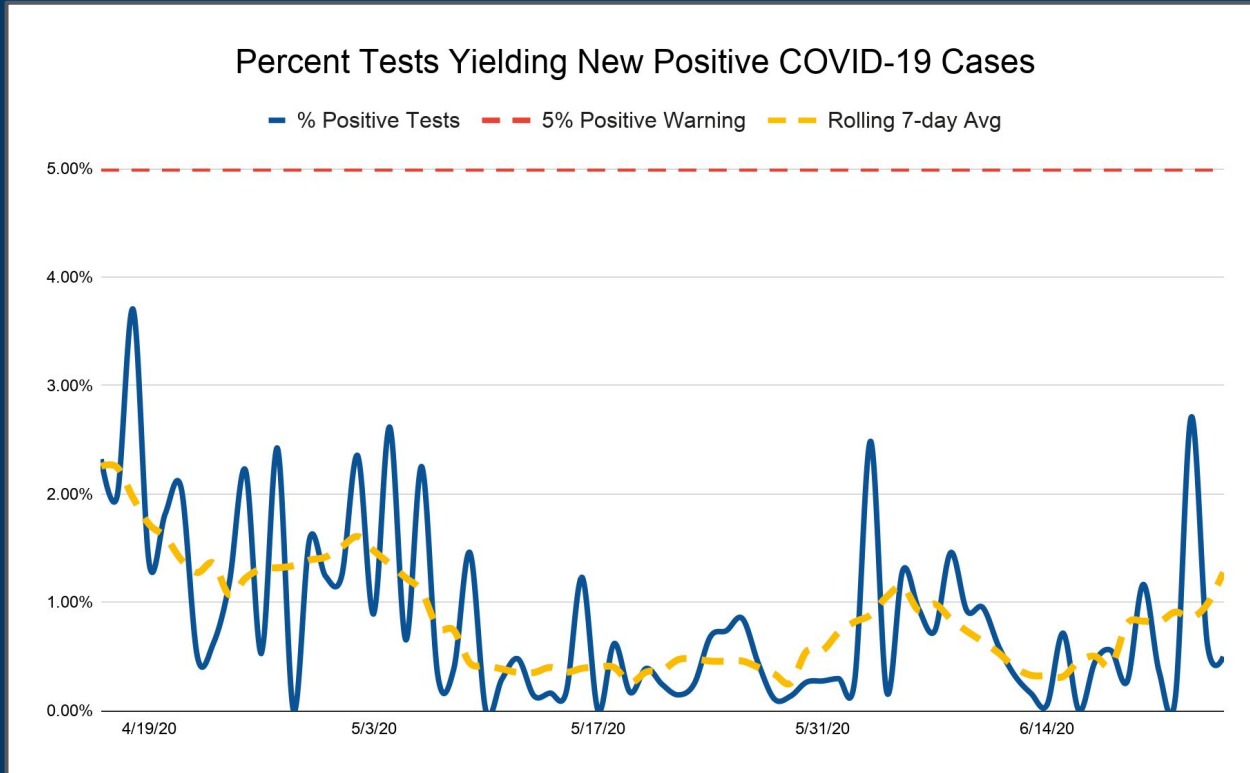
Data Point 2: Viral Growth and Reproductive Rates

- **Summary:** Case growth measured by daily, 3-day, 7-day, and effective reproductive rate (R_t)
- **Warning Flags:** Sustained viral growth that would lead to <30% of open ICU beds



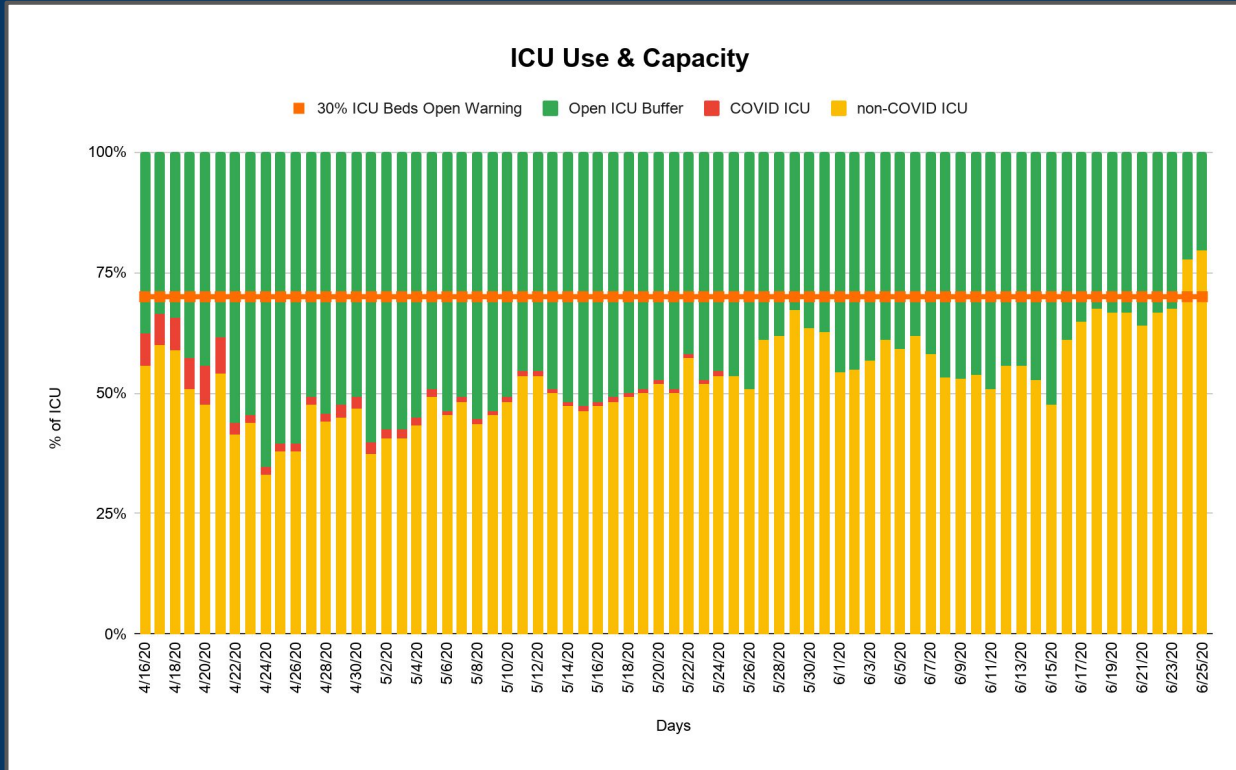
Data Point 3: Percentage of New Positive Tests

- **Summary:** Percent of tests resulting in a new positive case
- **Warning Flags:** New positives represent >5% of daily results



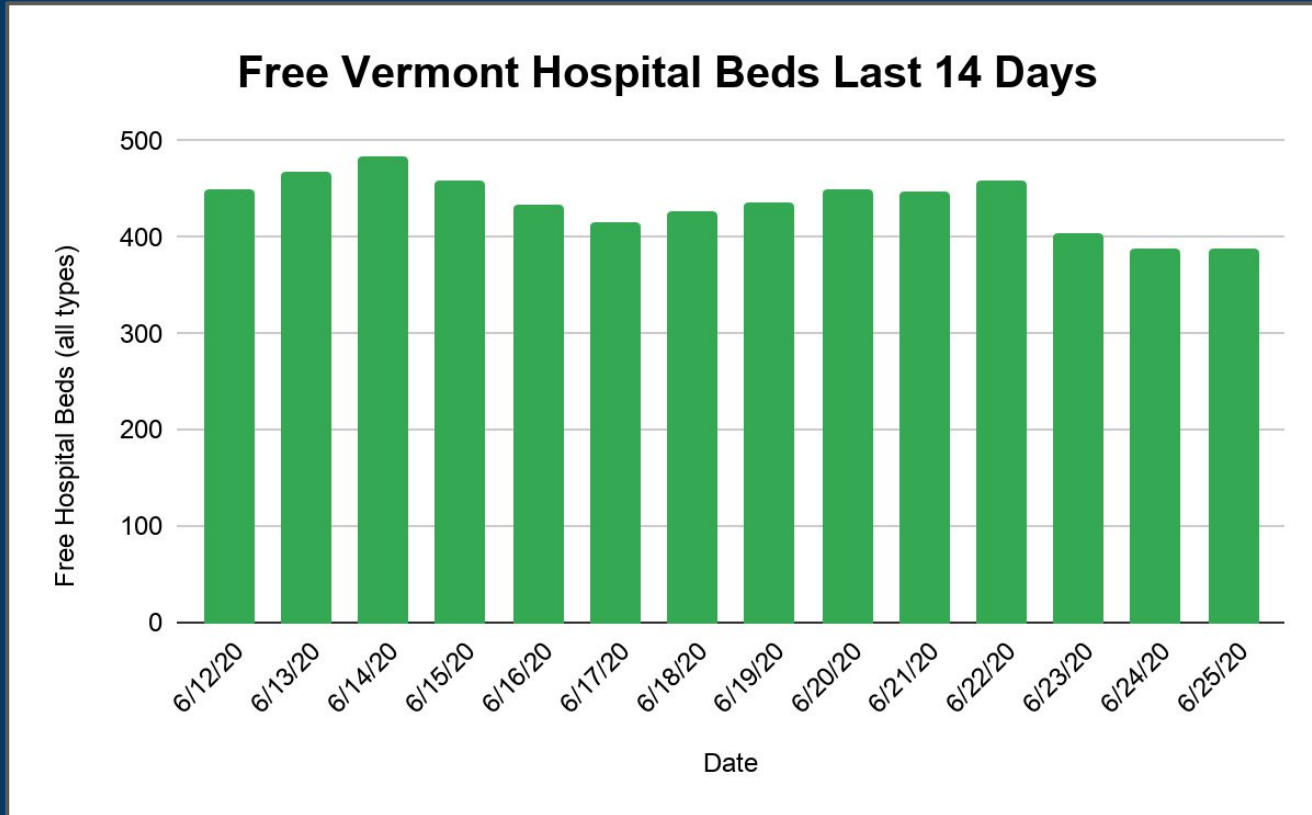
Data Point 4: Hospital & Critical Care Beds

- **Summary:** Number of occupied and unoccupied medical surgical and ICU beds
- **Warning Flags:** Reduction in ICU open beds to less than 30%



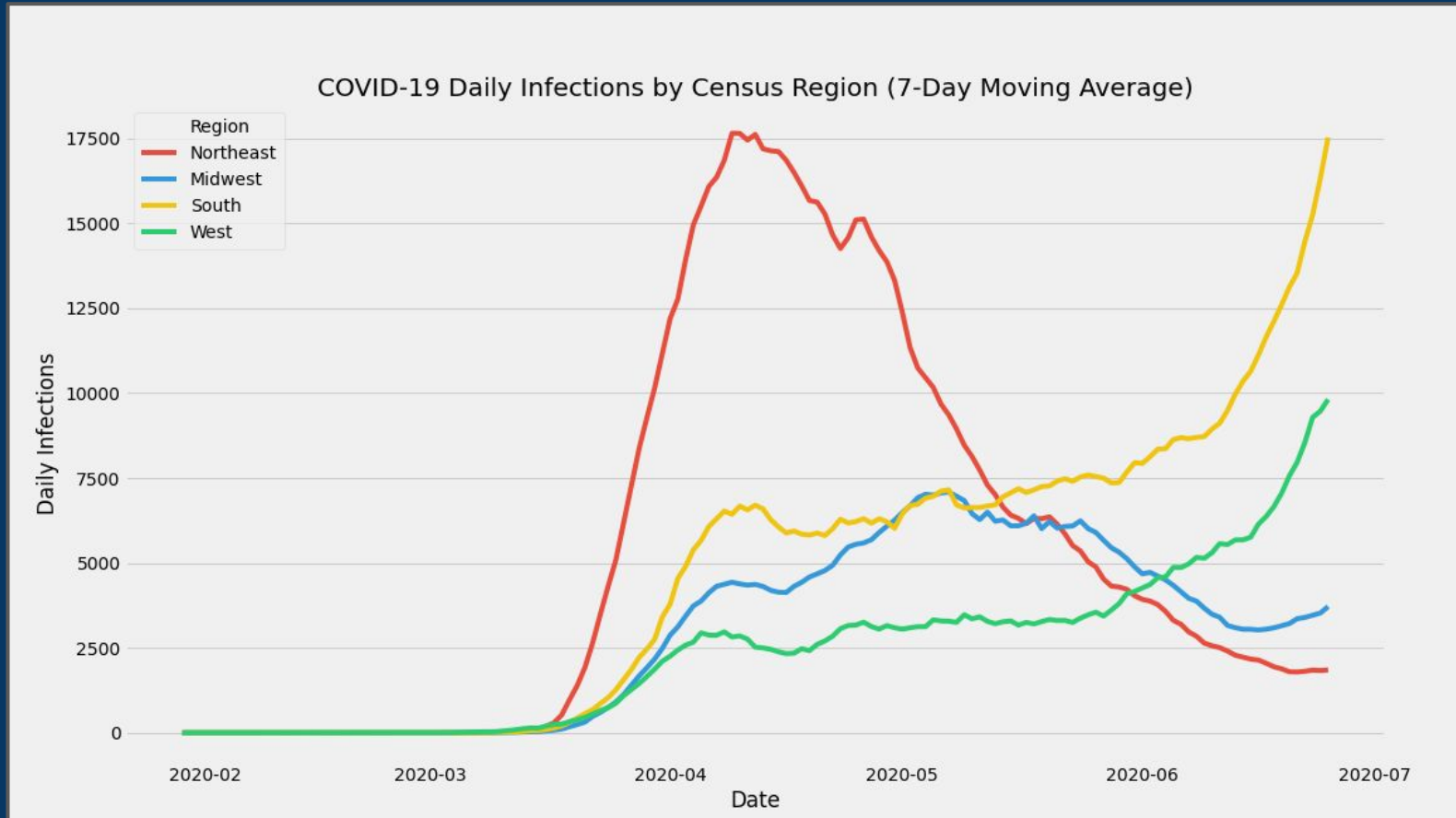
Data Point 4: Hospital & Critical Care Beds

- Summary: Number of unoccupied hospital beds



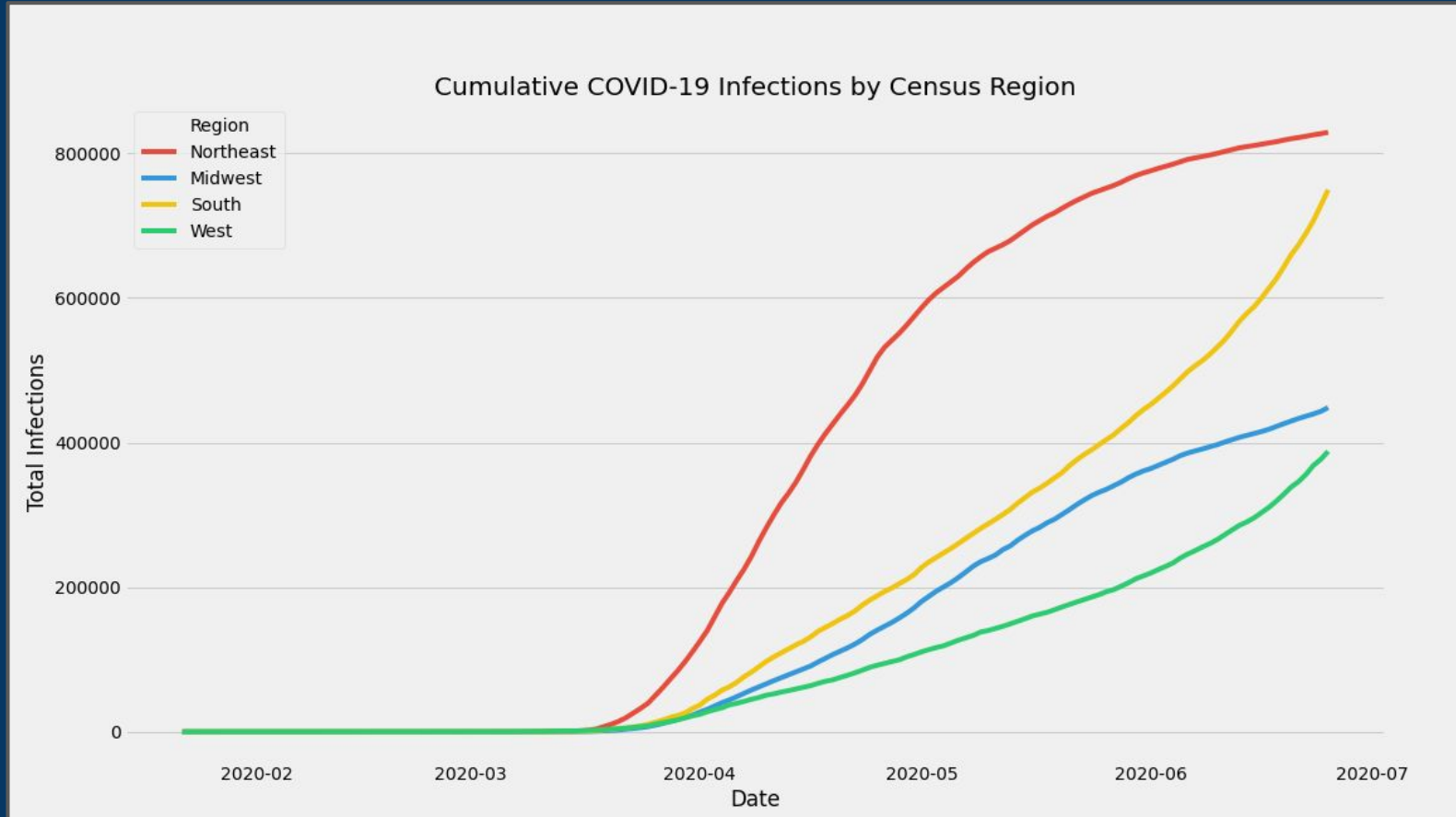
National & Regional Data

National Data



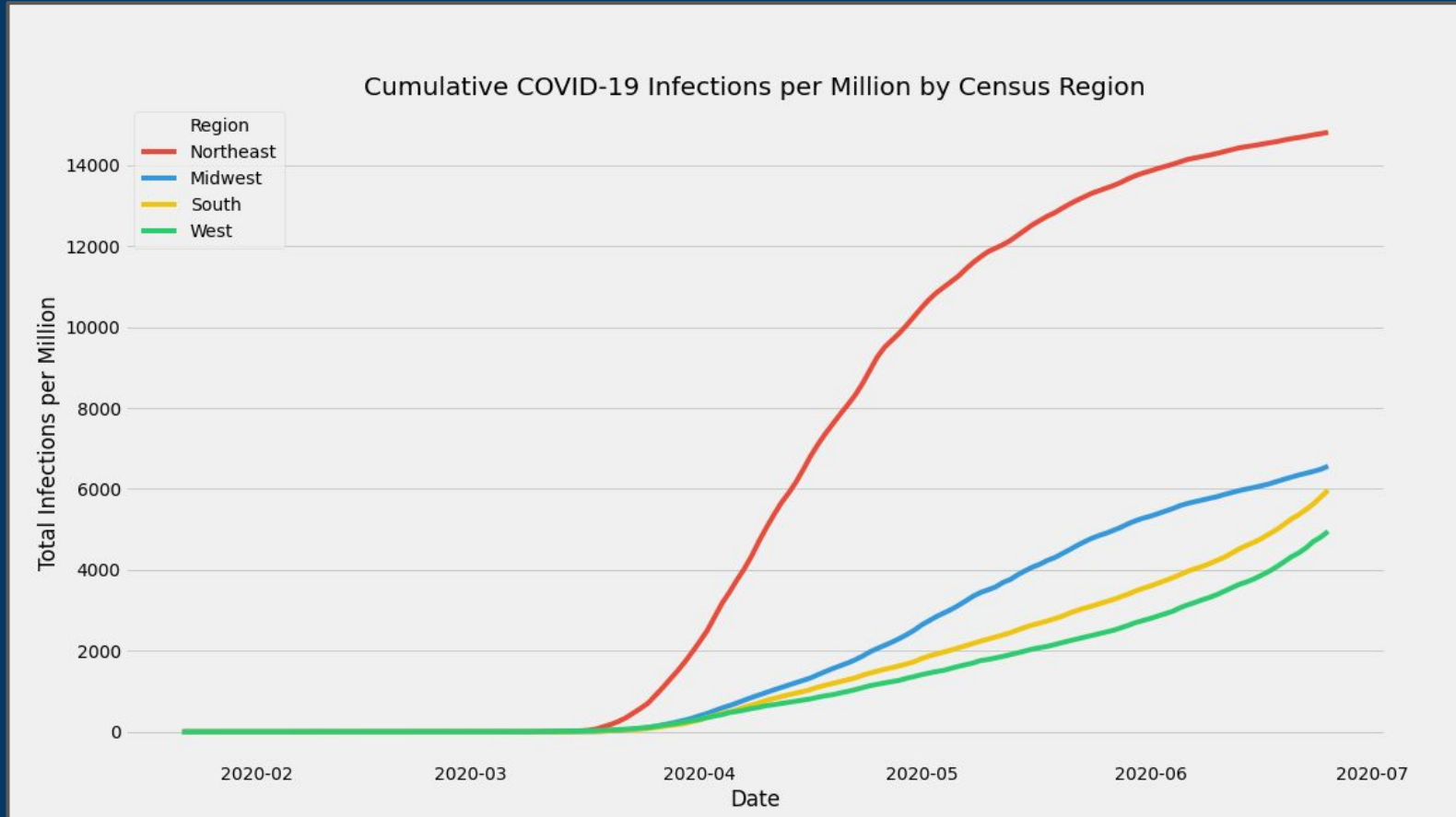
Source: Raw data from Johns Hopkins University - June 25, 2020

National Data



Source: Raw data from Johns Hopkins University - June 25, 2020

National Data

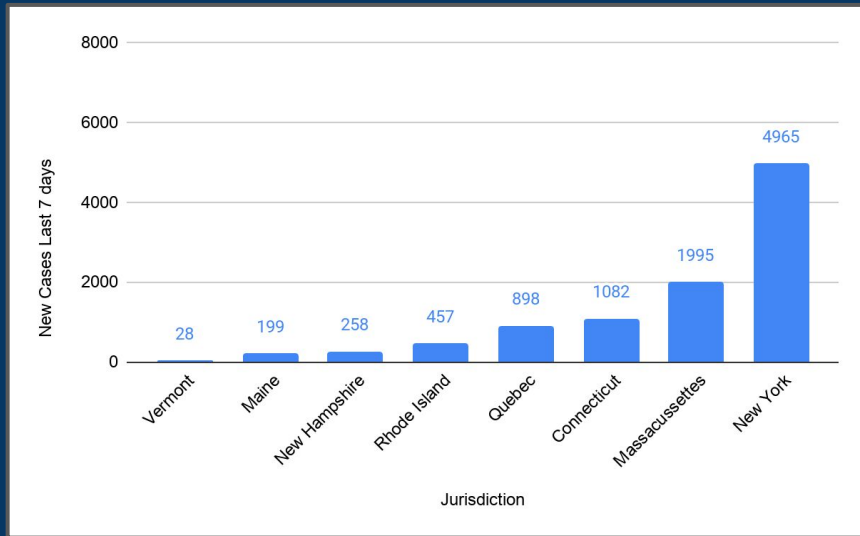


Source: Raw data from Johns Hopkins University - June 25, 2020

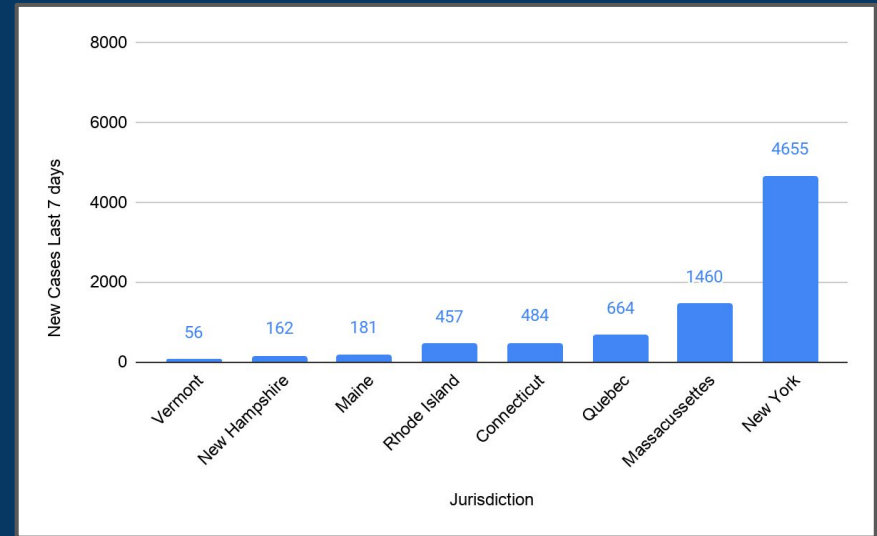
Regional Monitoring: New Cases Last 7 Days

18% Reduction in New Confirmed Cases

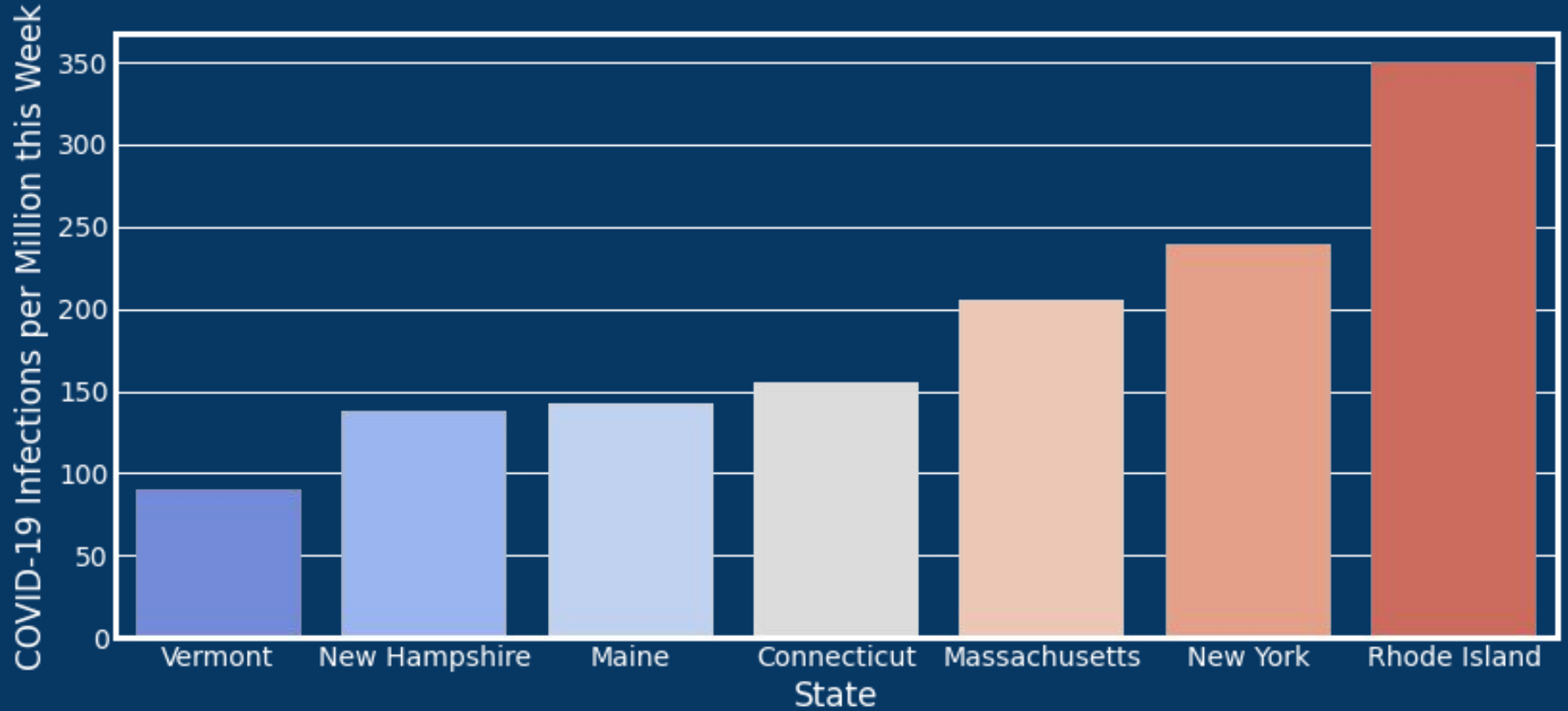
Positive Cases June 12th to June 18th



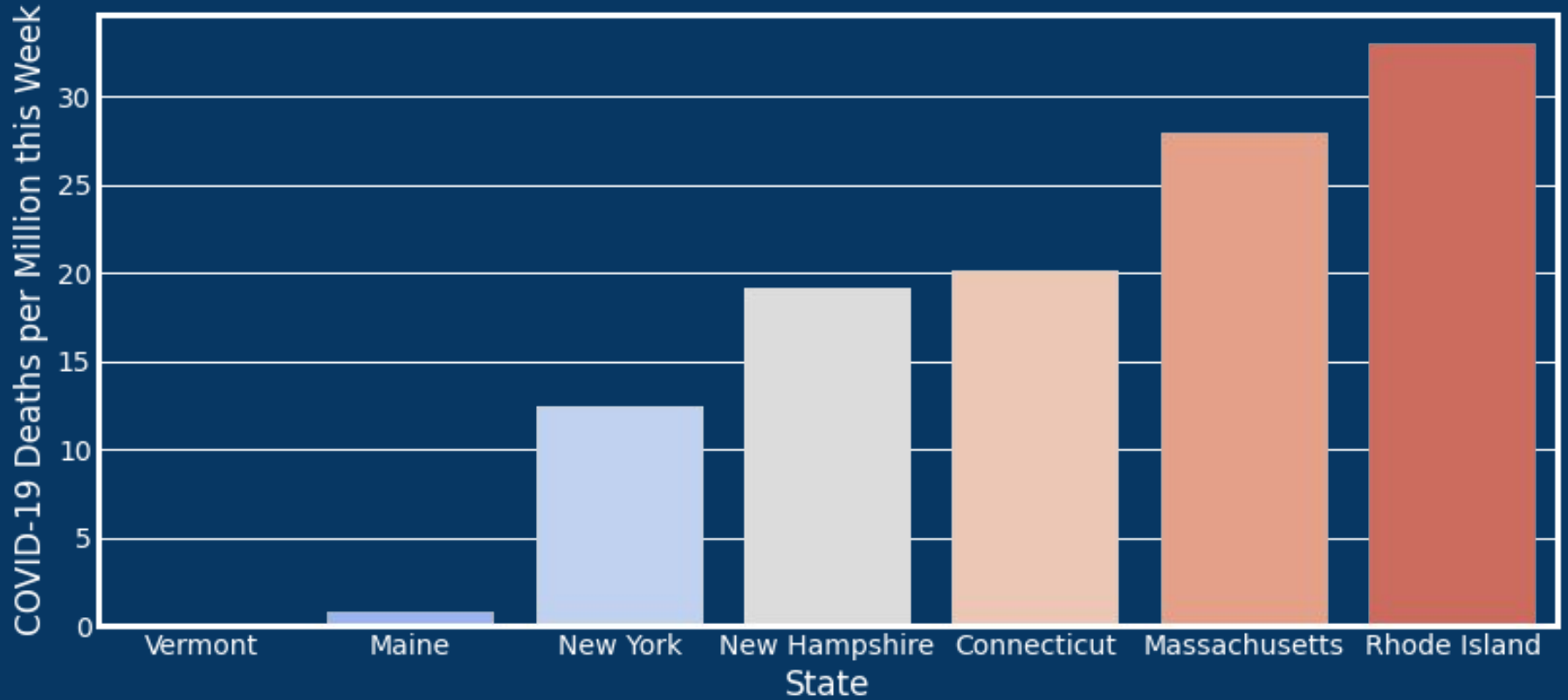
Positive Cases June 19th to June 26th



Weekly Infections per Million

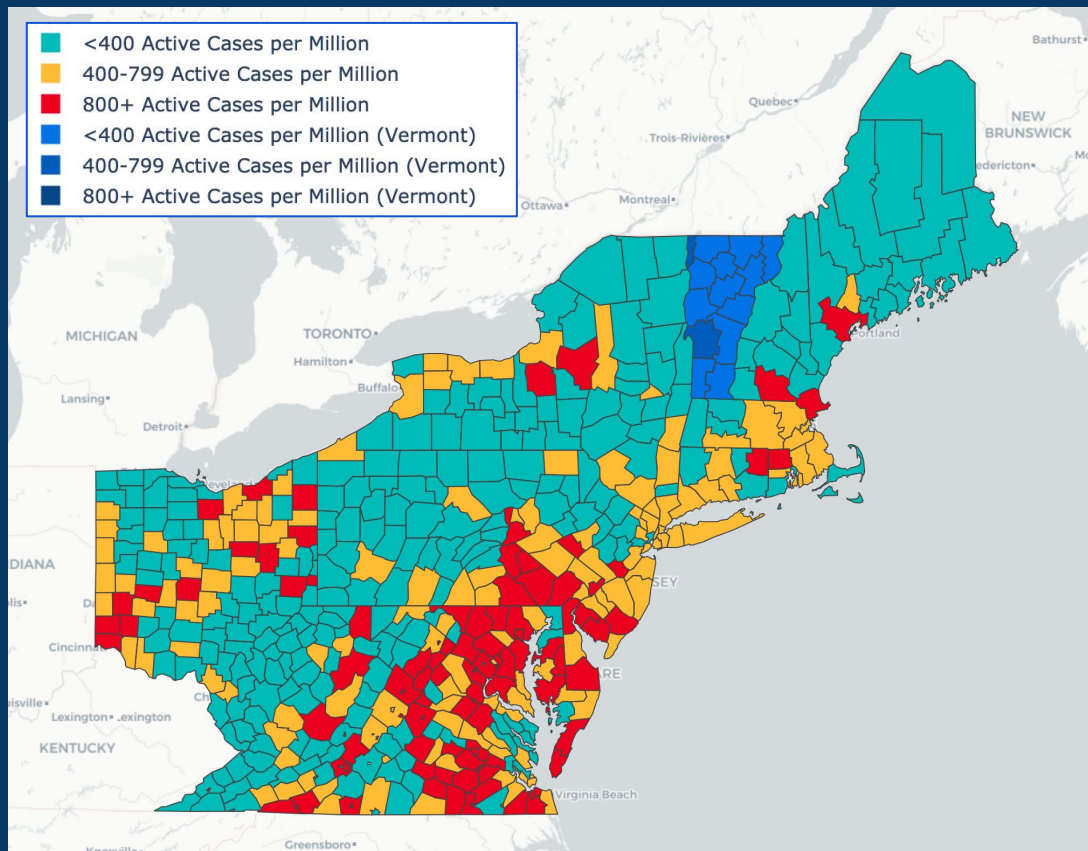


Weekly Deaths per Million



Travel Policy Update

Travel Policy: Data Updates



Source: Raw data from Johns Hopkins University date June 18, 2020 (dynamic map available at Vermont ACCD site)