

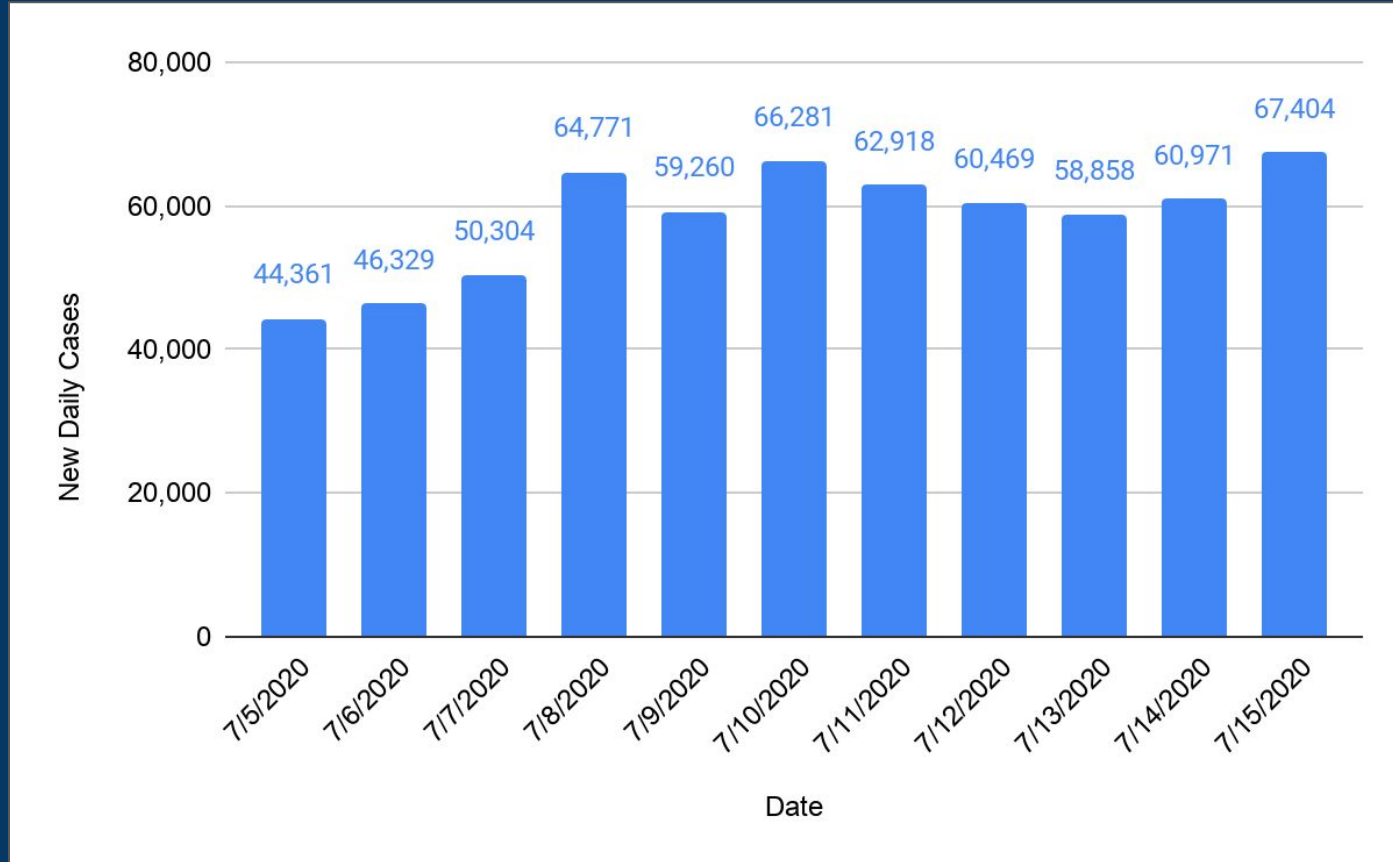
COVID-19 Modeling

July 17, 2020

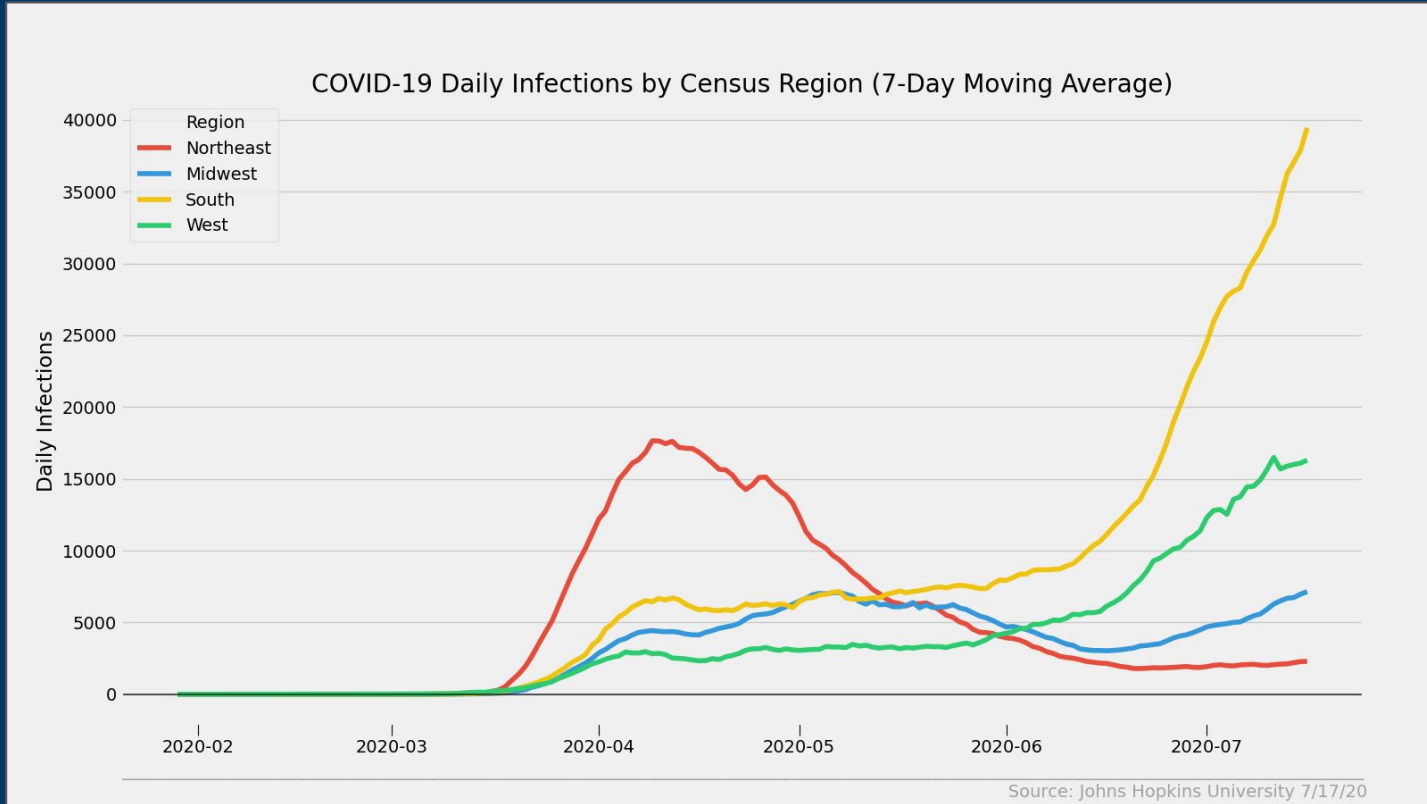
Presentation available at:
dfr.vermont.gov

National Data

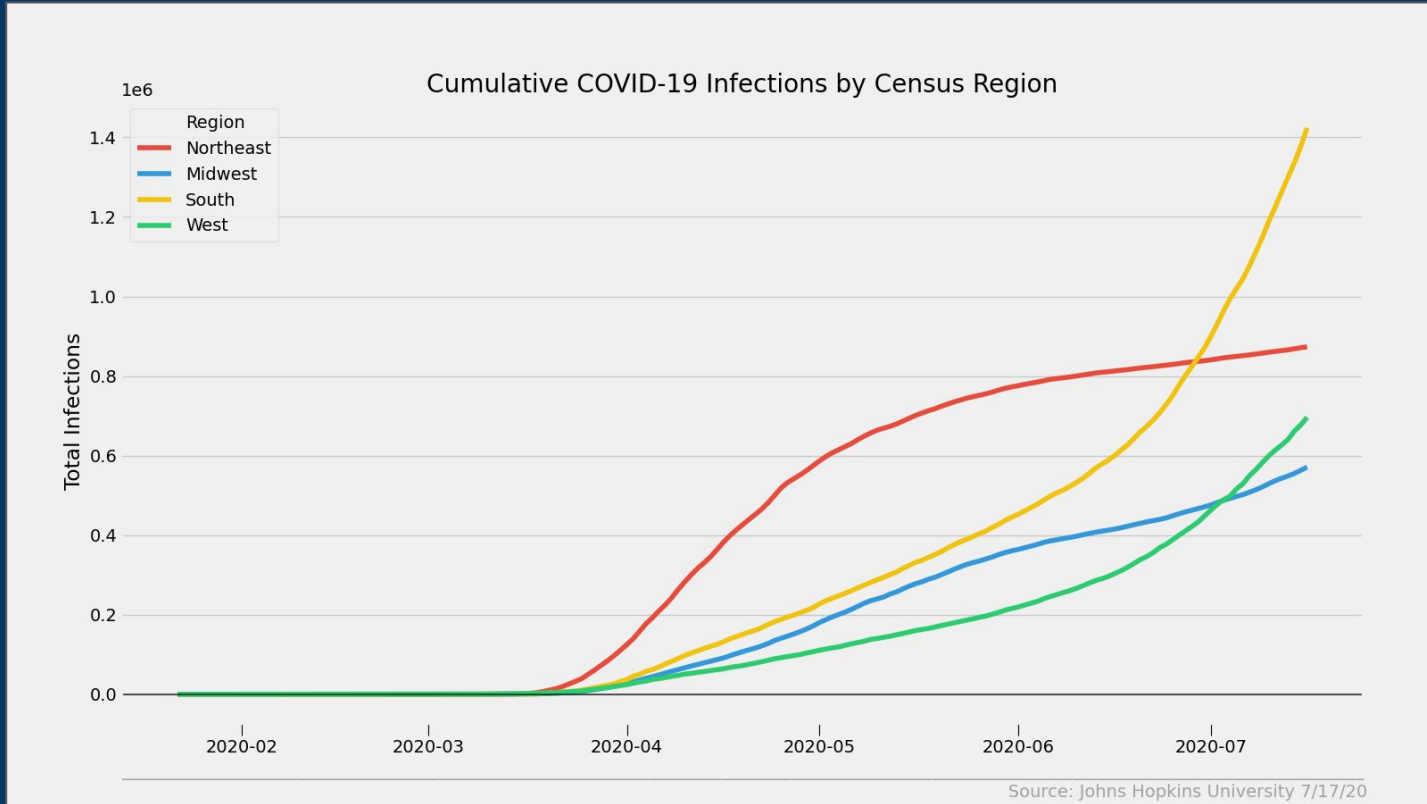
Confirmed U.S. Cases Since July 4th



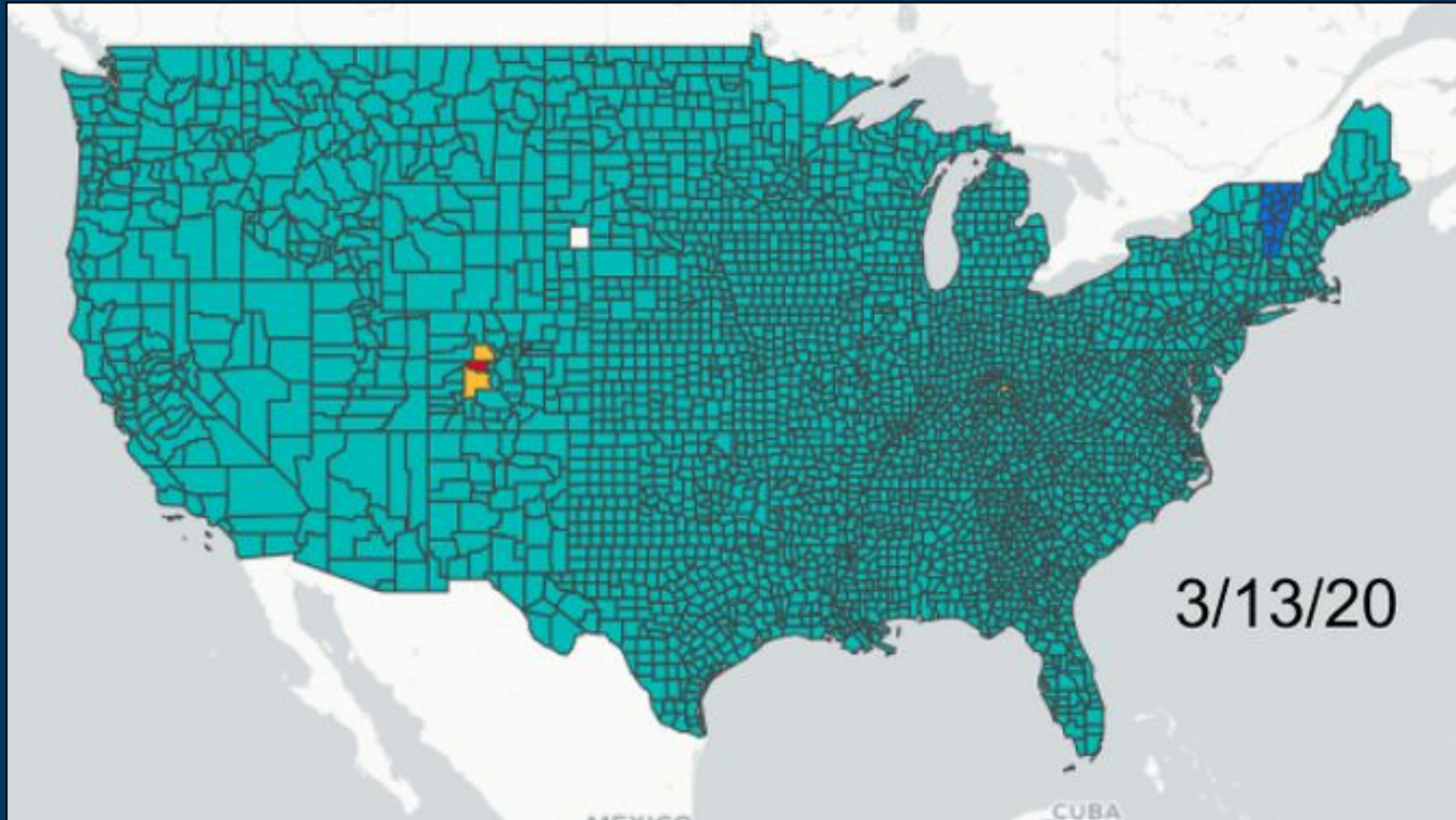
National Data



National Data



National Trends: Unfavorable Trajectory



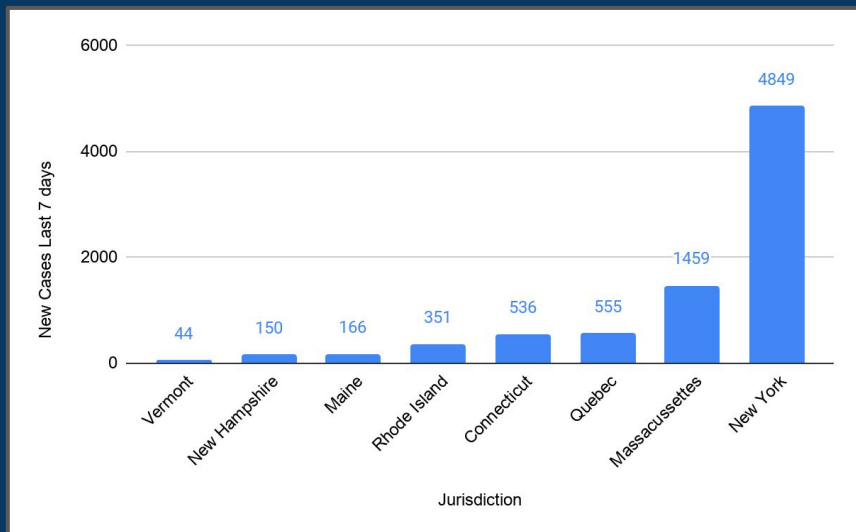
Source: Raw data from Johns Hopkins University—July 17, 2020

Regional Data

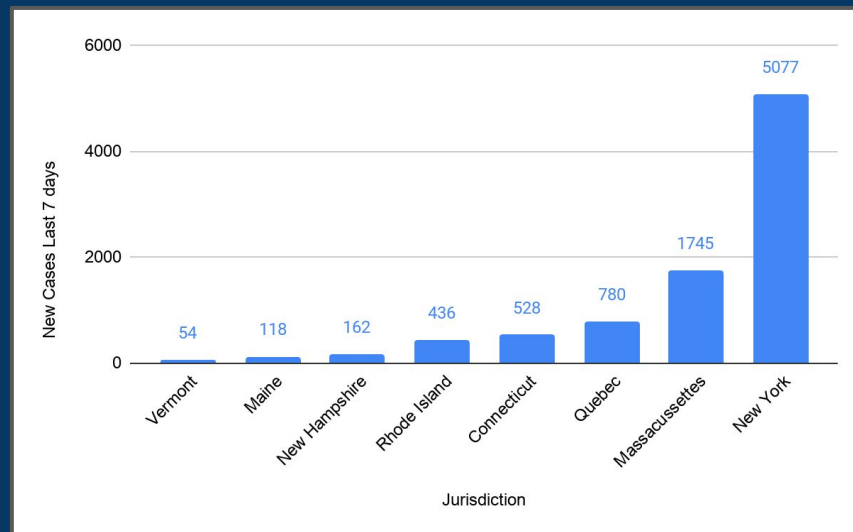
Regional Monitoring: New Cases Last 7 Days

9.74% Increase in New Confirmed Cases

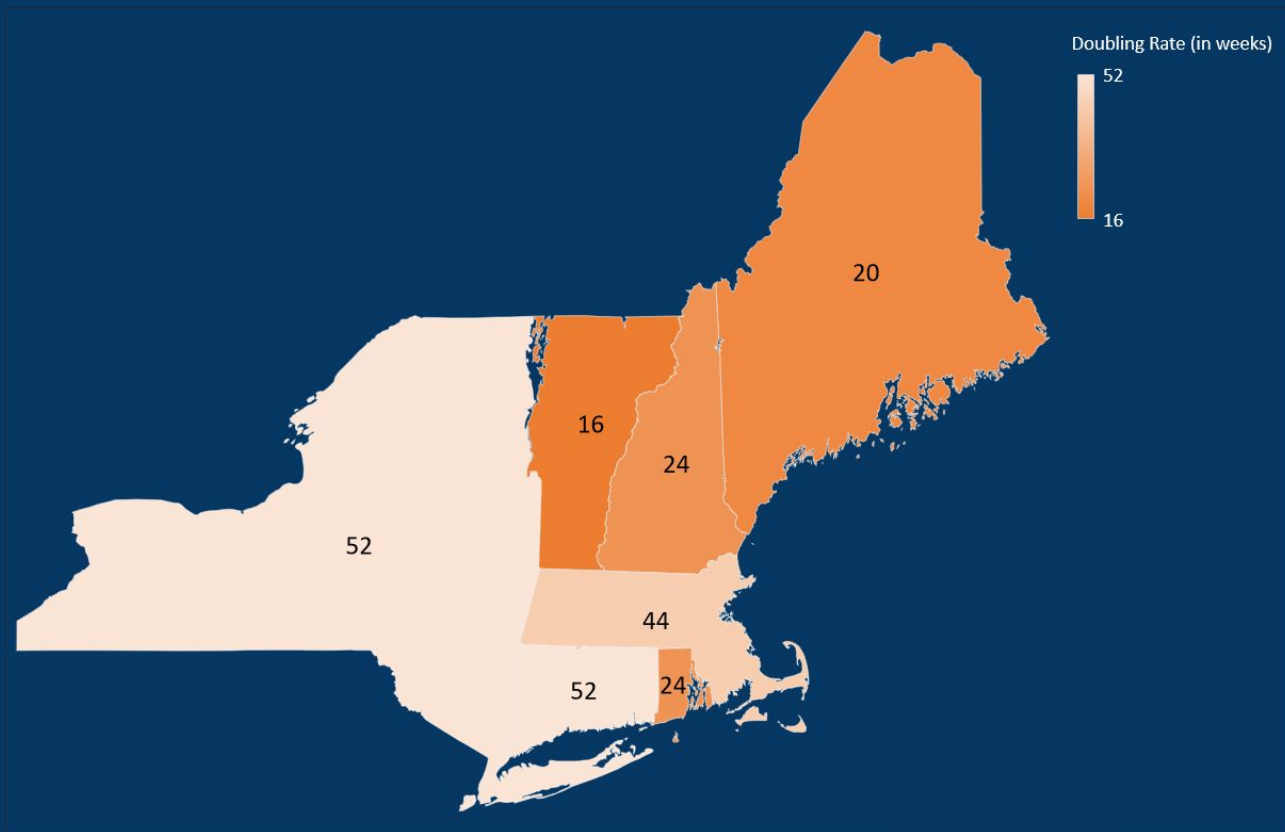
Positive Cases July 2nd to July 8th



Positive Cases July 9nd to July 16th



Vermont's Doubling Rate: 16 Weeks



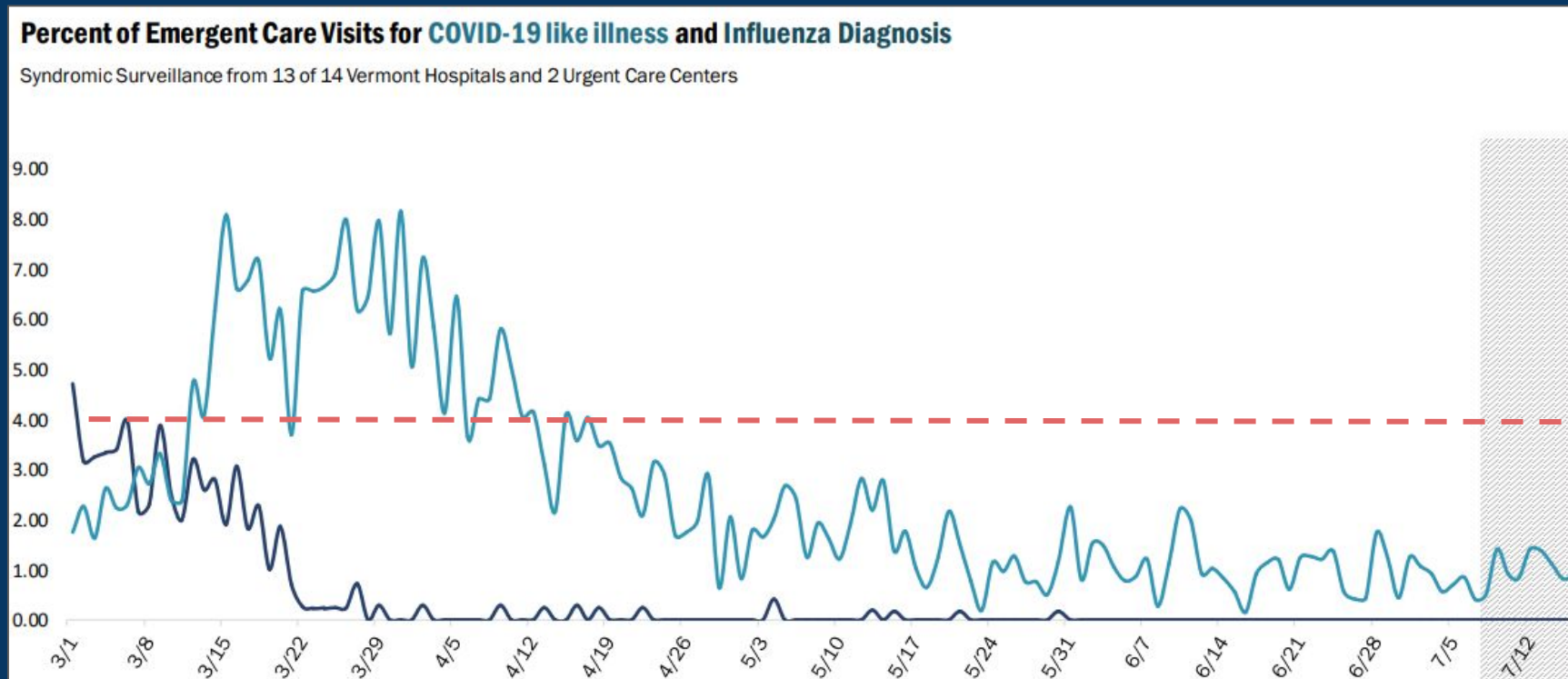
RESTART VERMONT

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

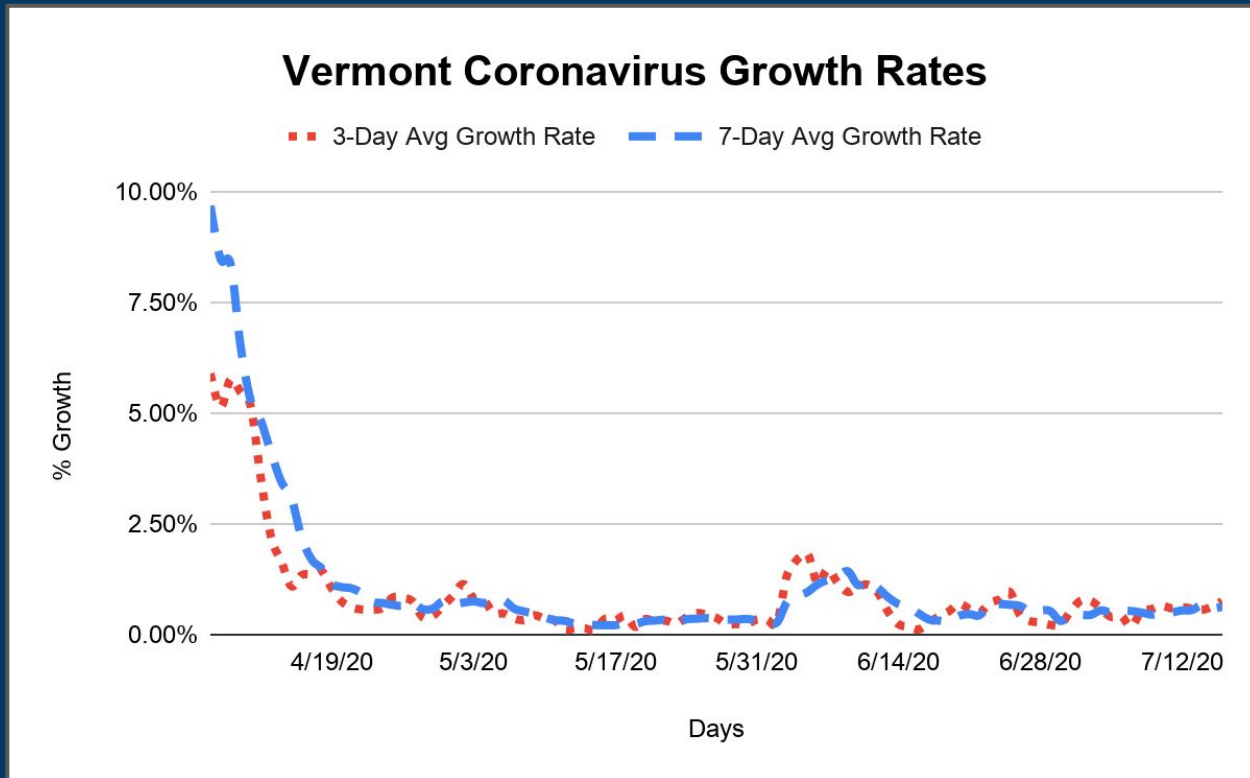
- **Summary:** Percentage of visits with COVID-19 like illness and Influenza diagnosis
- **Warning Flag:** Percentage of visits exceeding 4% for multiple consecutive days



Source: Vermont Department of Health - July 17, 2020

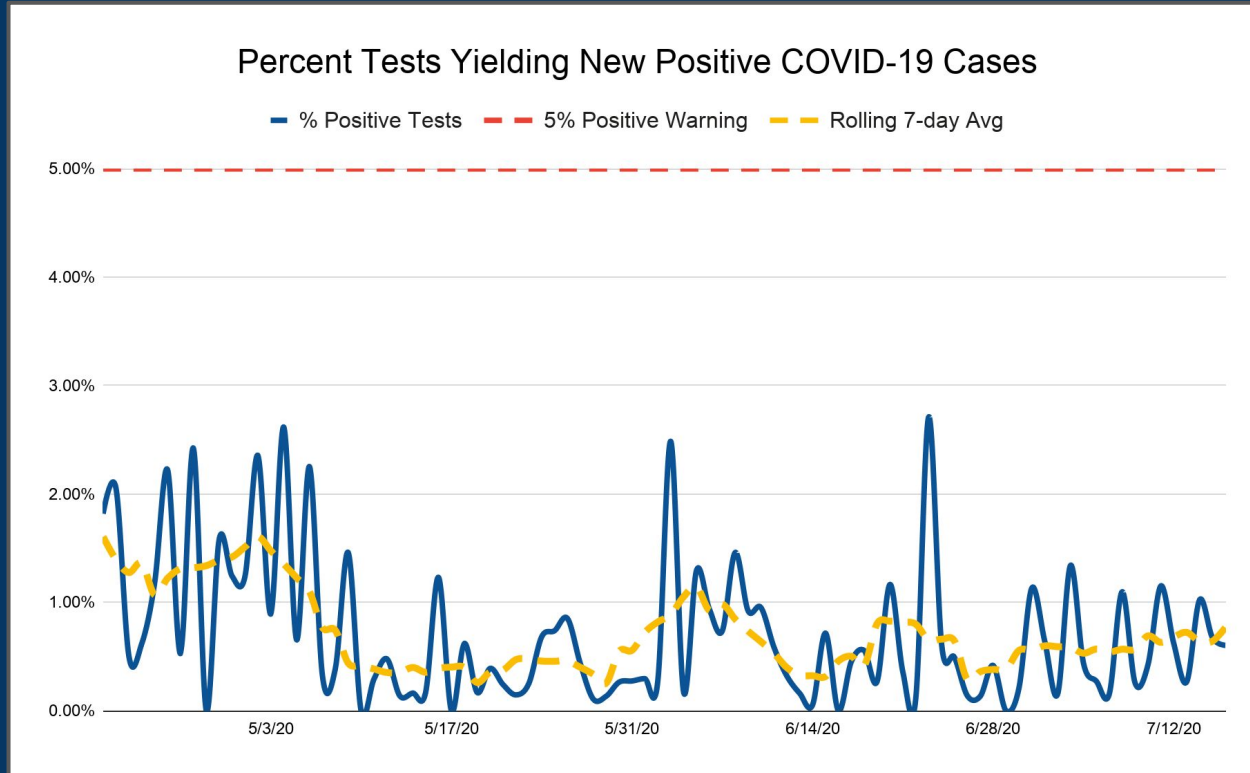
Data Point 2: Viral Growth and Reproductive Rates

- **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



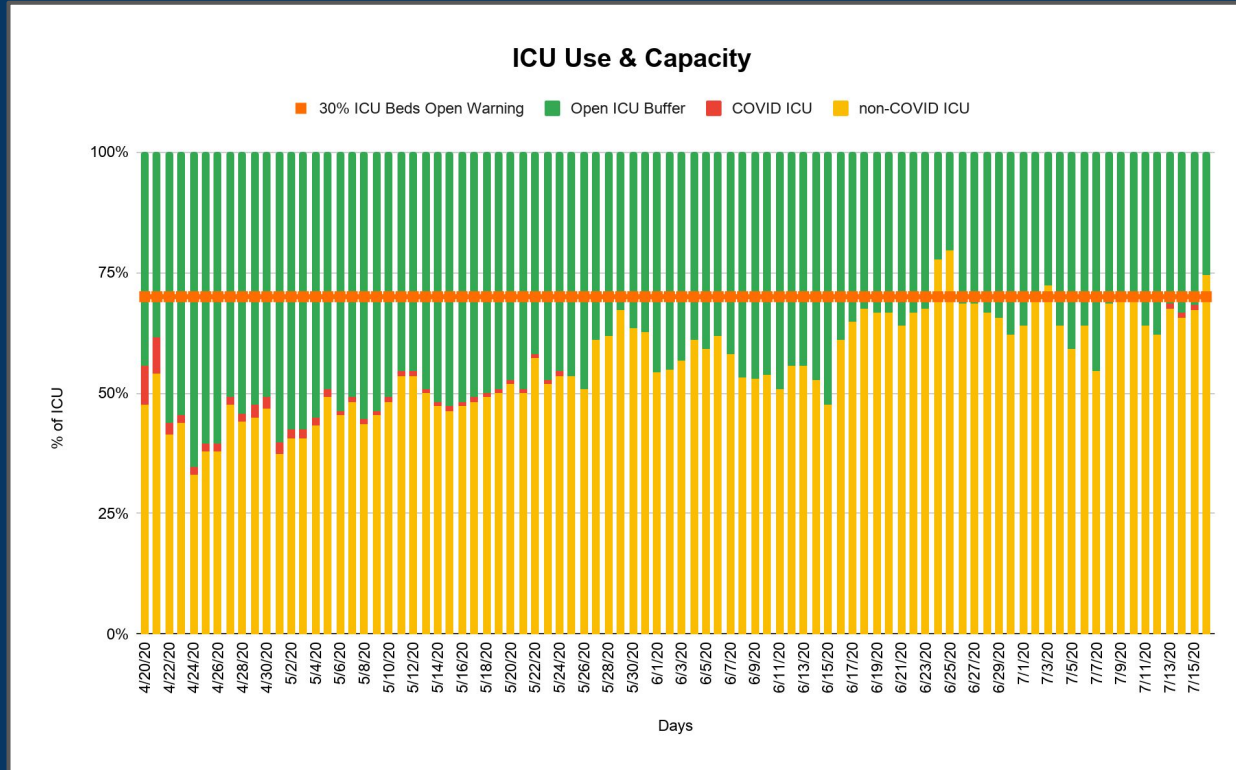
Data Point 3: Percentage of New Positive Tests

- **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

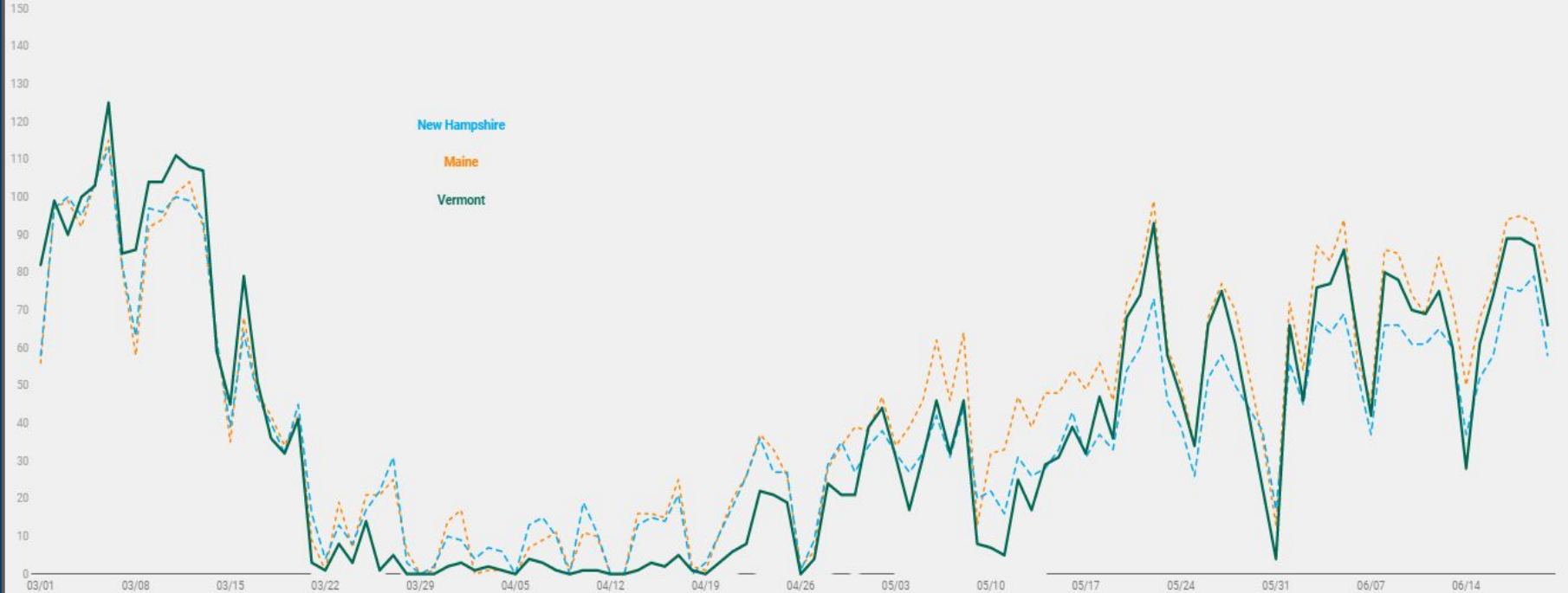
- **Summary:** Number of occupied and unoccupied medical surgical and ICU beds
- **Warning Flags:** Reduction in ICU open beds to less than 30%



Mobility Data: Small Weekly Increases in Movement

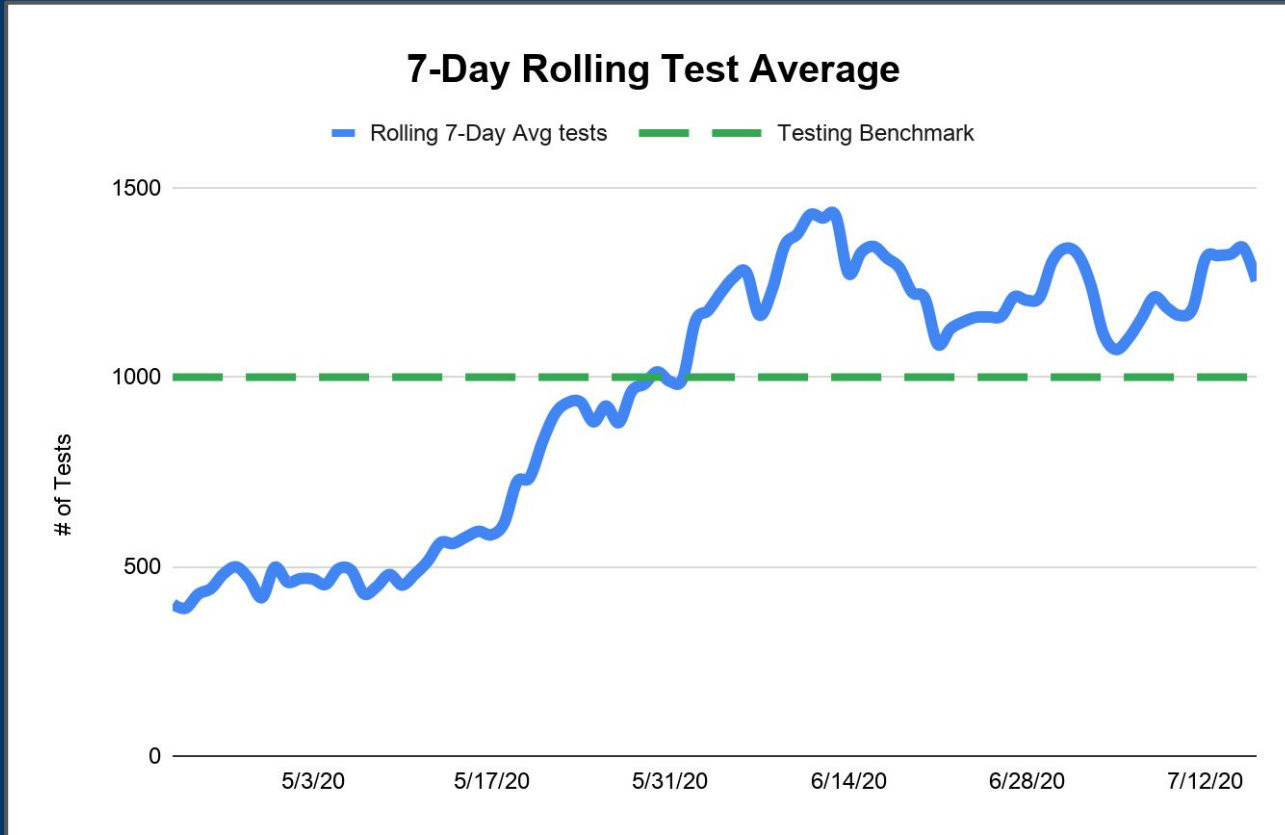
Percent Change in Median Distance Traveled by Individuals

'Median distance' defined during 2020-02-17 to 2020-03-07. Values depict % change for individual with median distance traveled of sample population by state.



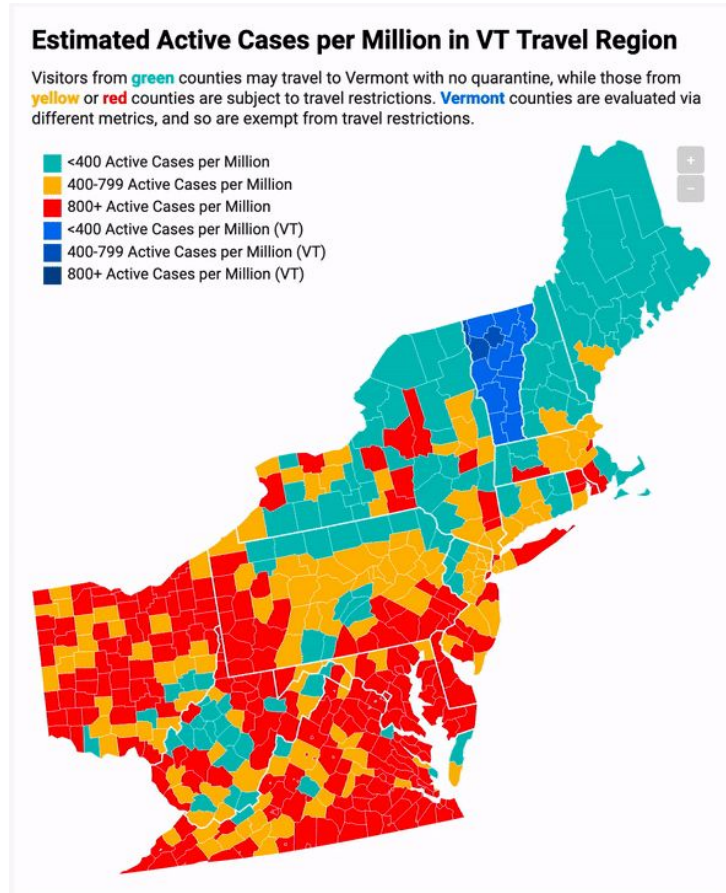
Updated Daily (3 day data processing delay)

Vermont COVID-19 PCR Testing



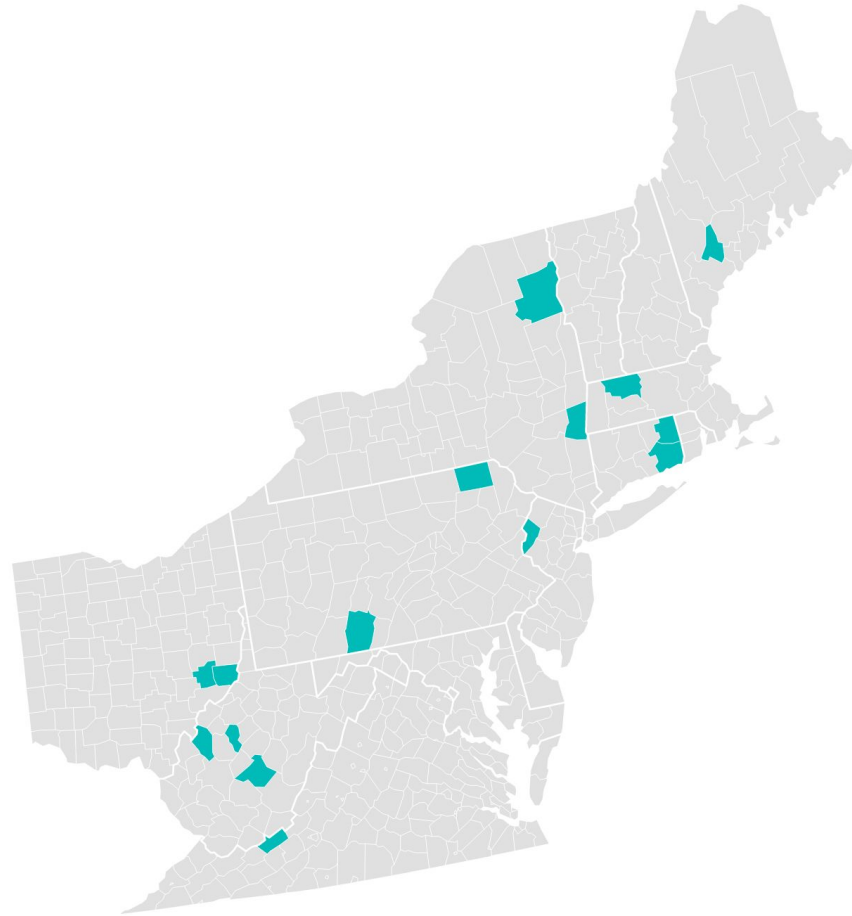
Travel Policy Update

Travel Map: Updated Formatting

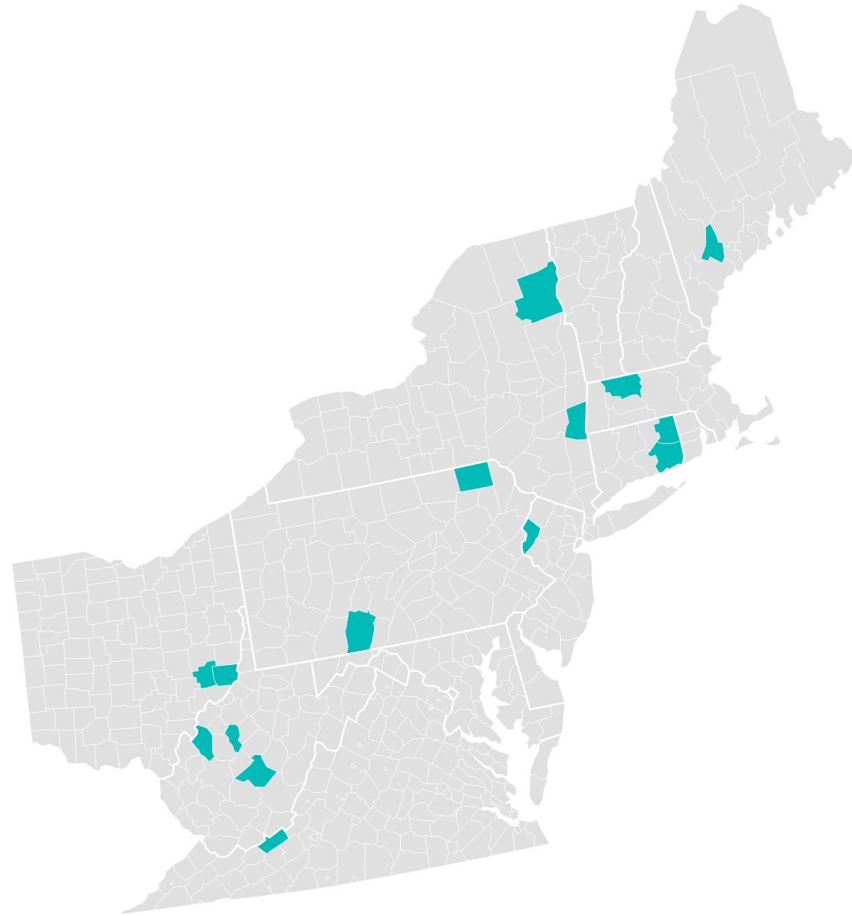


Source: Raw data from Johns Hopkins University—July 17, 2020 (dynamic map available at Vermont ACCD site)

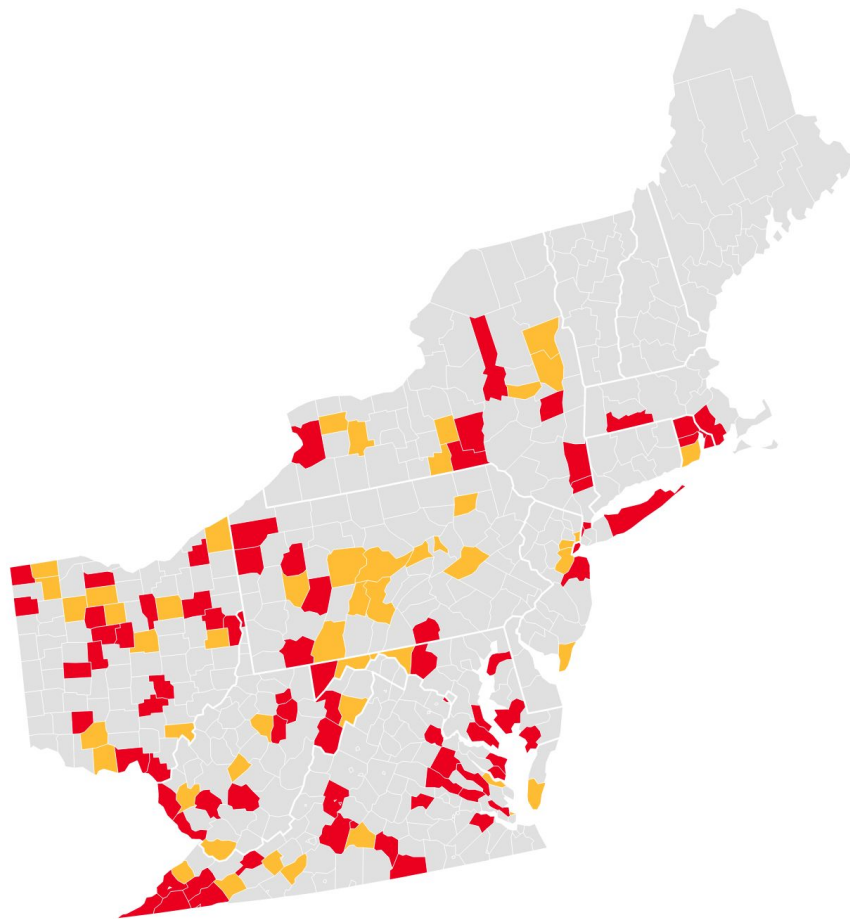
Updated Travel Map



Travel Map: New Green Counties



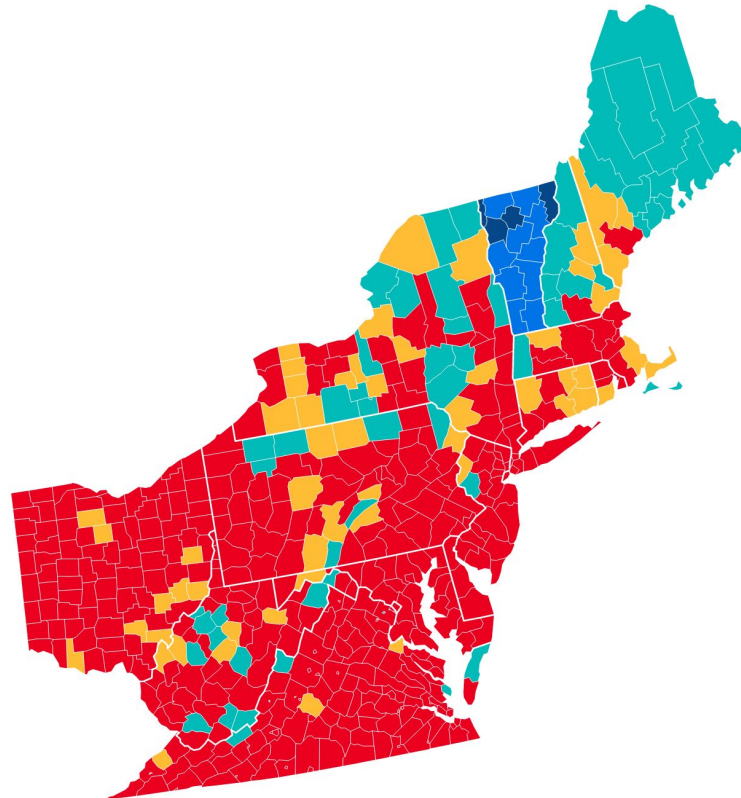
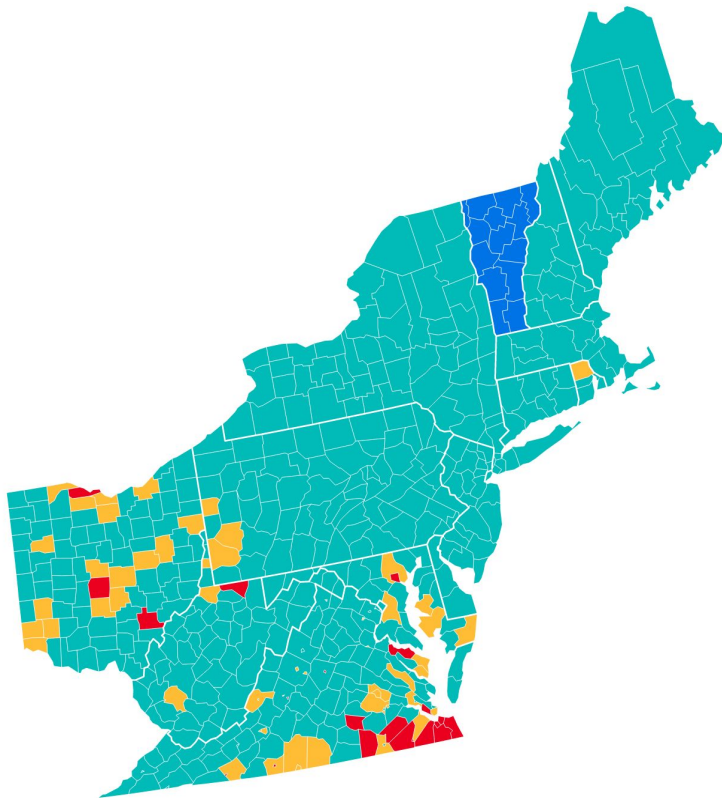
Travel Map: Counties with Unfavorable Growth



Travel Policy Standards

New York/Connecticut/New Jersey

European Union



Source: Raw data from Johns Hopkins University—July 17, 2020