# COVID-19 Modeling July 10, 2020

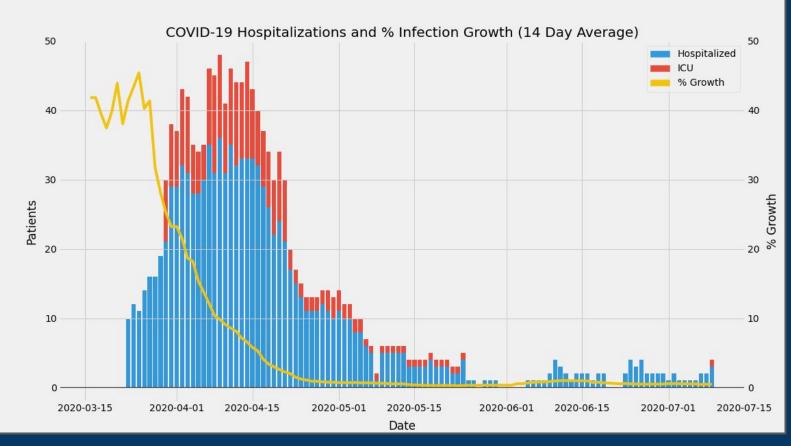
Presentation available at: dfr.vermont.gov

## Weekly Data & Forecast July 3, 2020 to July 10, 2020

#### Forecast vs Actual June 18th to July 15th 7-Day Rolling Average

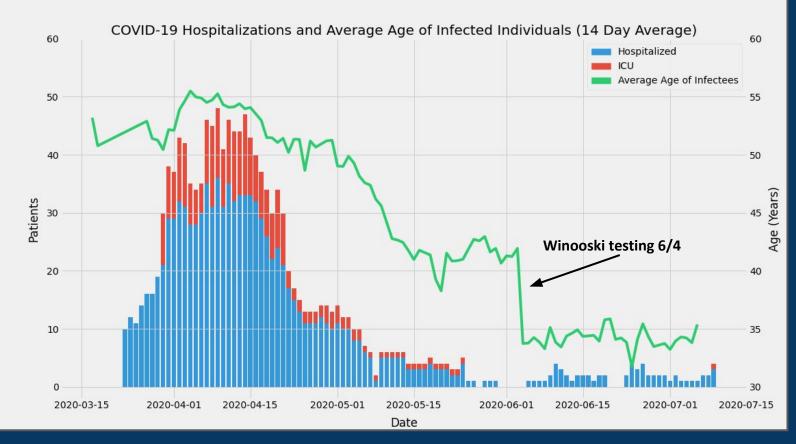


#### Vermont: Data Update



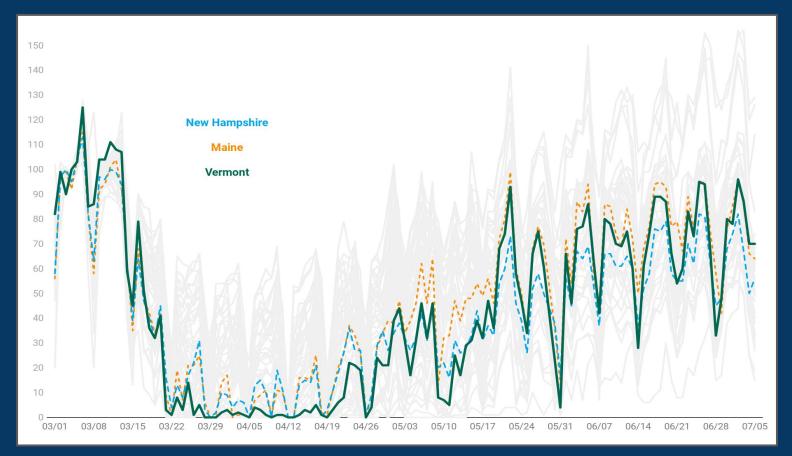
Source: Raw data from VDH - July 10, 2020

#### Vermont: Data Update

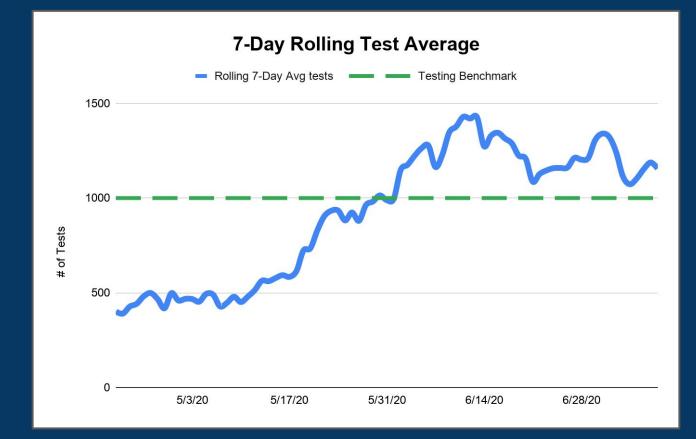


Source: Raw data from VDH - July 10, 2020

#### Mobility Data: Continued Increased Movement

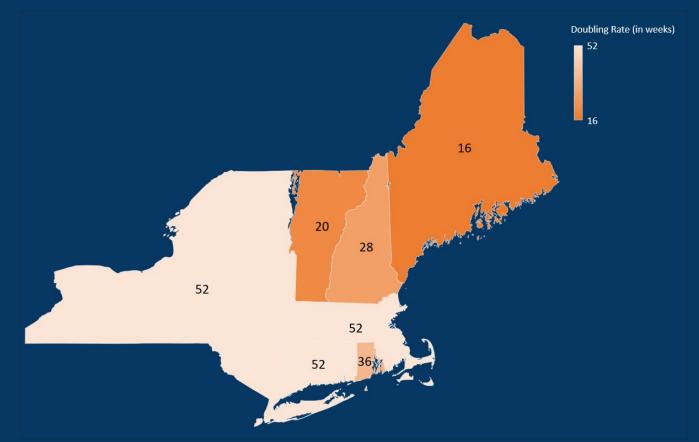


#### Vermont COVID-19 PCR Testing



Source: Vermont Department of Health; tests measured as results reported to VDH by day

### Vermont's Doubling Rate: 20 Weeks



Data Source: Johns Hopkins University - July 10, 2020

# **RESTART VERMONT**

## **Reopening Metrics**

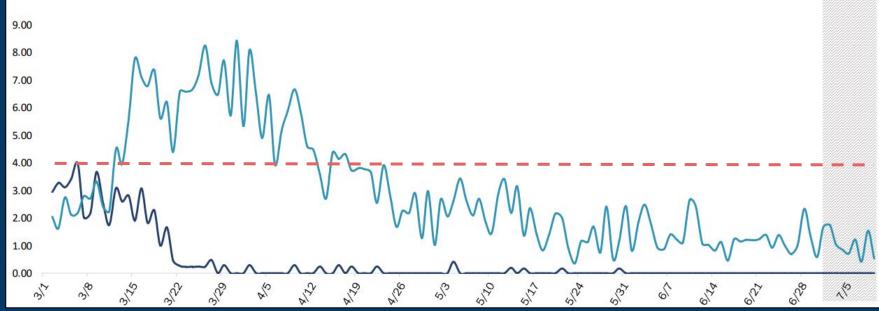
- 1. Syndromic Surveillance
- 2. Viral Growth & Reproductive Rates
- 3. Percentage of New Positive Tests
- 4. Hospital & Critical Care Bed Capacity

### Data Point 1: Syndromic Surveillance

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

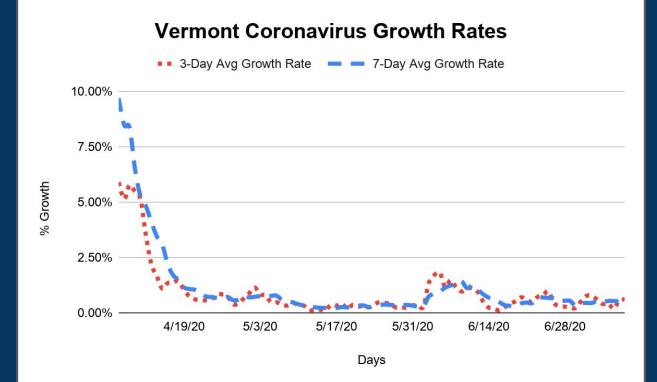
#### Percent of Emergent Care Visits for COVID-19 like illness and Influenza Diagnosis

Syndromic Surveillance from 13 of 14 Vermont Hospitals and 2 Urgent Care Centers



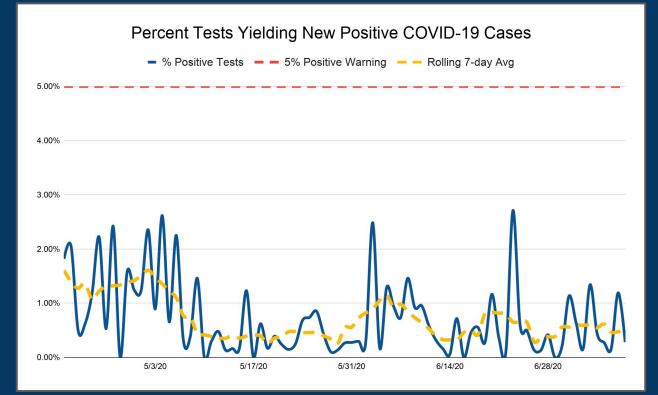
#### **Data Point 2:** Viral Growth and Reproductive Rates

- 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



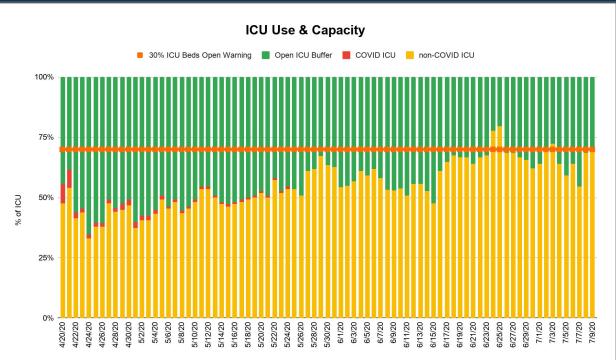
#### Data Point 3: Percentage of New Positive Tests

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



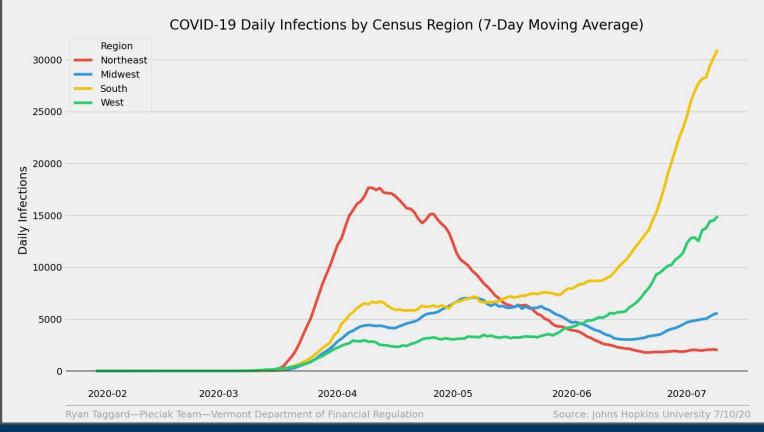
#### Data Point 4: Hospital & Critical Care Beds

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



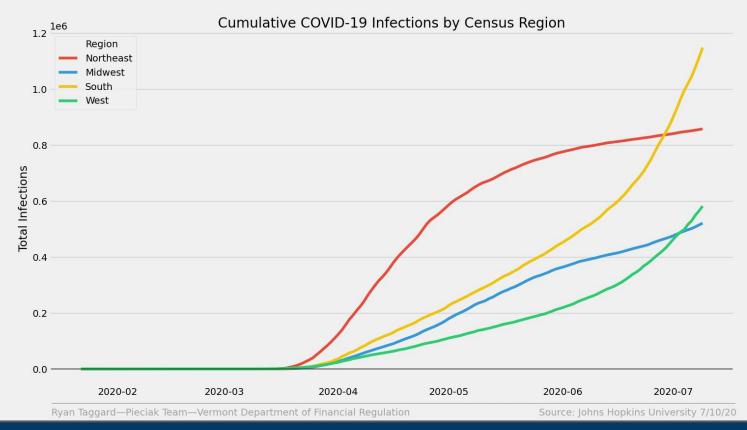
## National & Regional Data

#### National Data



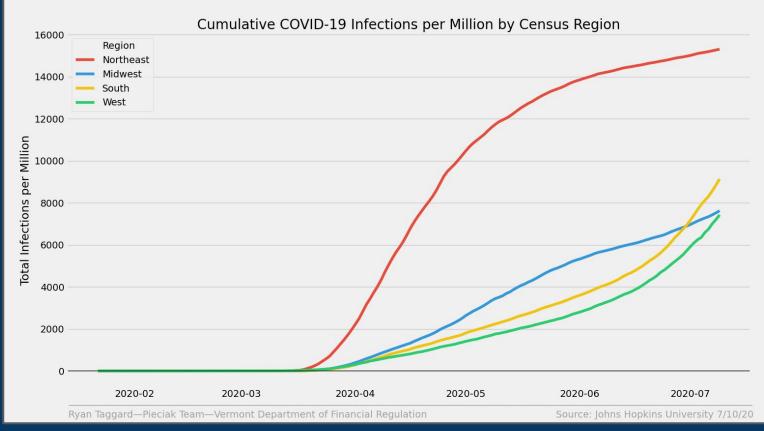
Source: Raw data from Johns Hopkins University - July 10, 2020

#### National Data



Source: Raw data from Johns Hopkins University - July 10, 2020

#### National Data



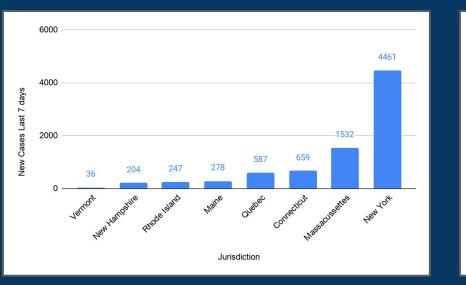
Source: Raw data from Johns Hopkins University - July 10, 2020

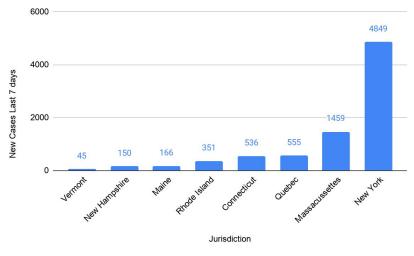
#### **Regional Monitoring: New Cases Last 7 Days**

#### 1.33% Increase in New Confirmed Cases

#### Positive Cases June 26th to July 1st

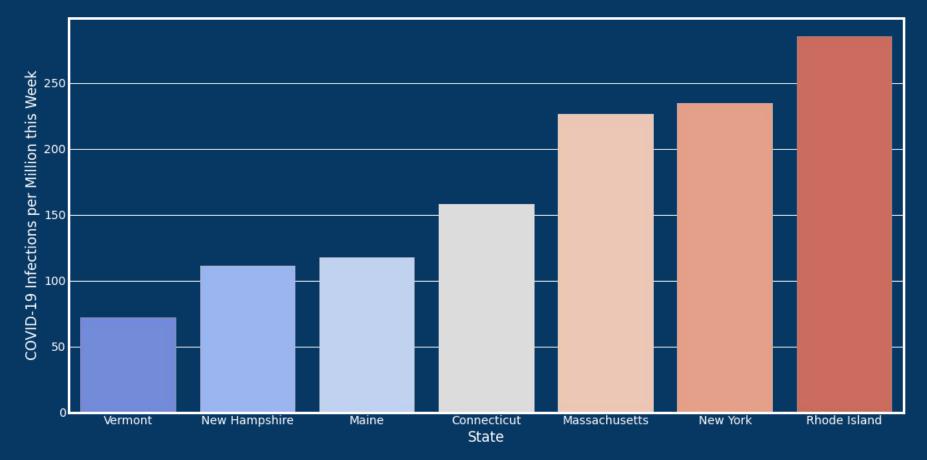
#### Positive Cases July 2nd to July 8th





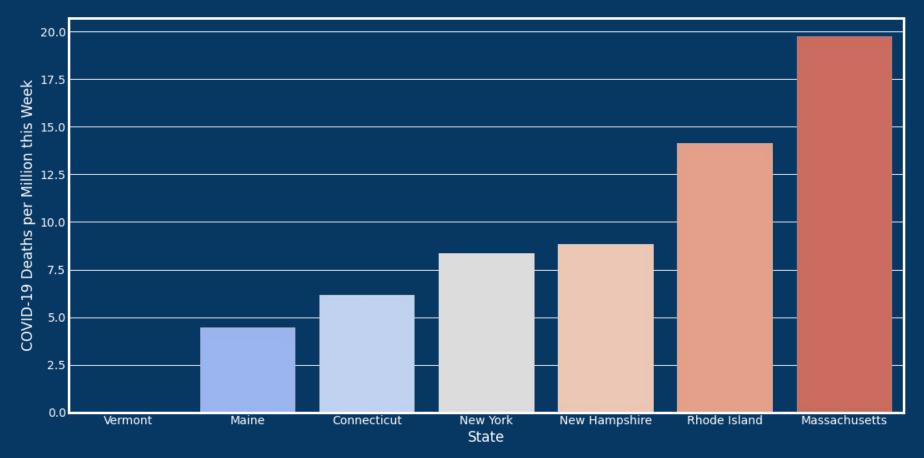
#### Source: Johns Hopkins University

#### Weekly Infections per Million



Source: Johns Hopkins University, July 3 - July 10, 2020

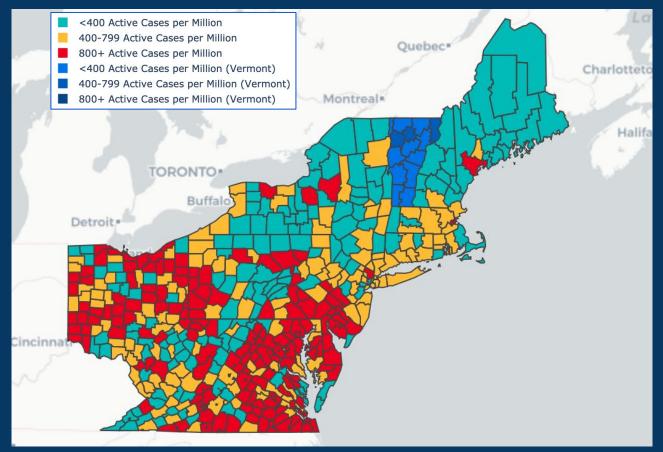
#### Weekly Deaths per Million



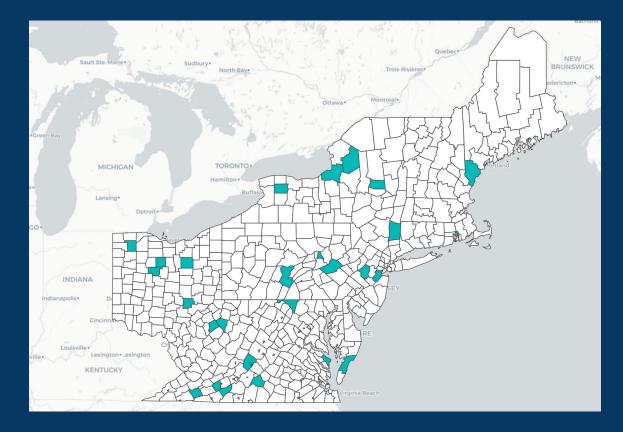
Source: Johns Hopkins University, July 3 - July 10, 2020

## **Travel Policy Update**

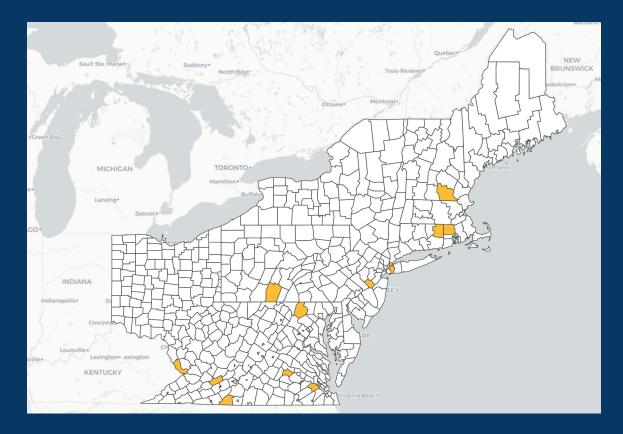
#### Travel Policy: Data Updates



### Trending Favorably: Counties Moving from Yellow or Red to Green



### Trending Favorably: Counties Moving from Red to Yellow



### Trending Unfavorably: Counties Moving to Yellow or Red

