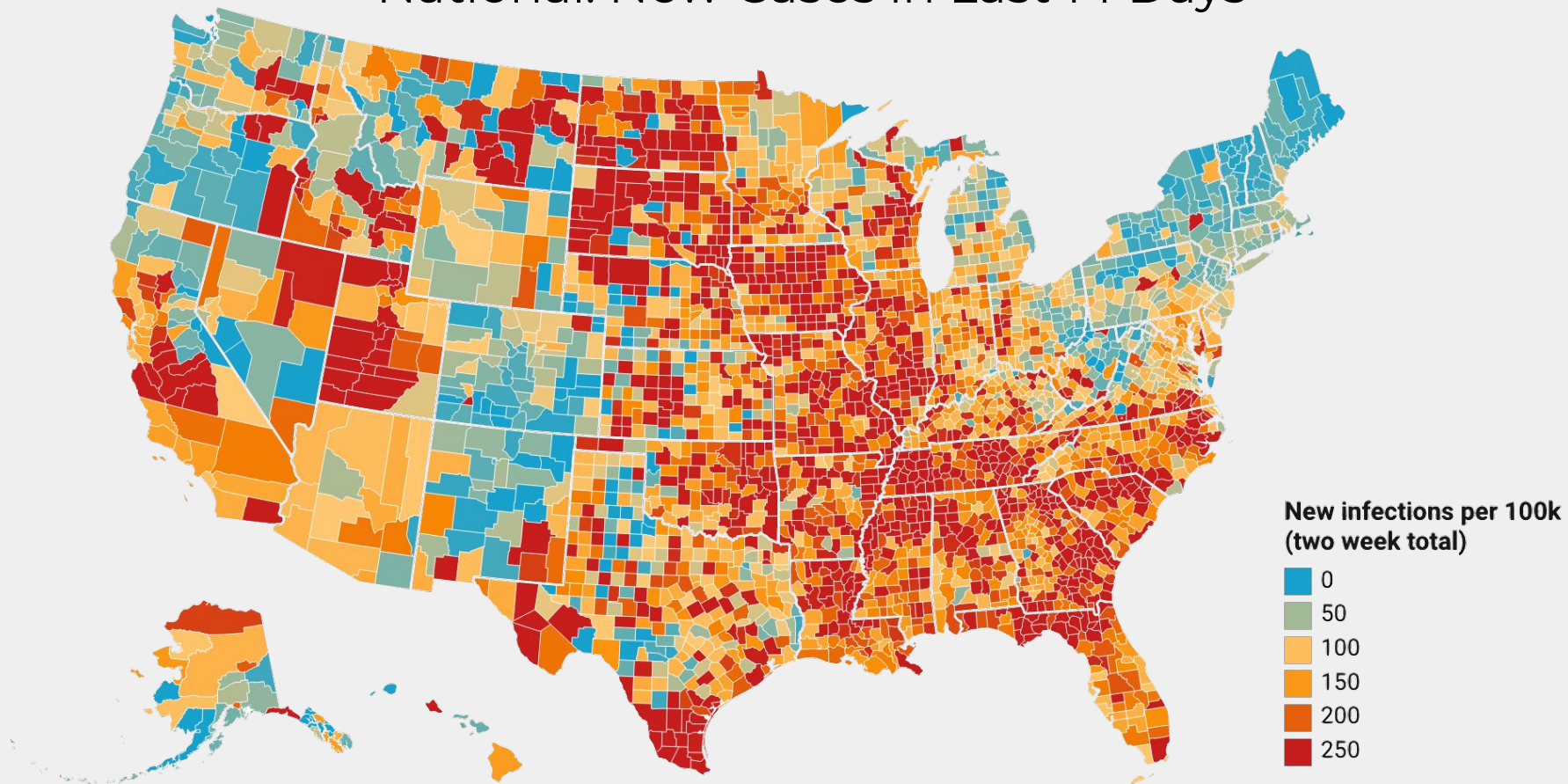


COVID-19 Modeling

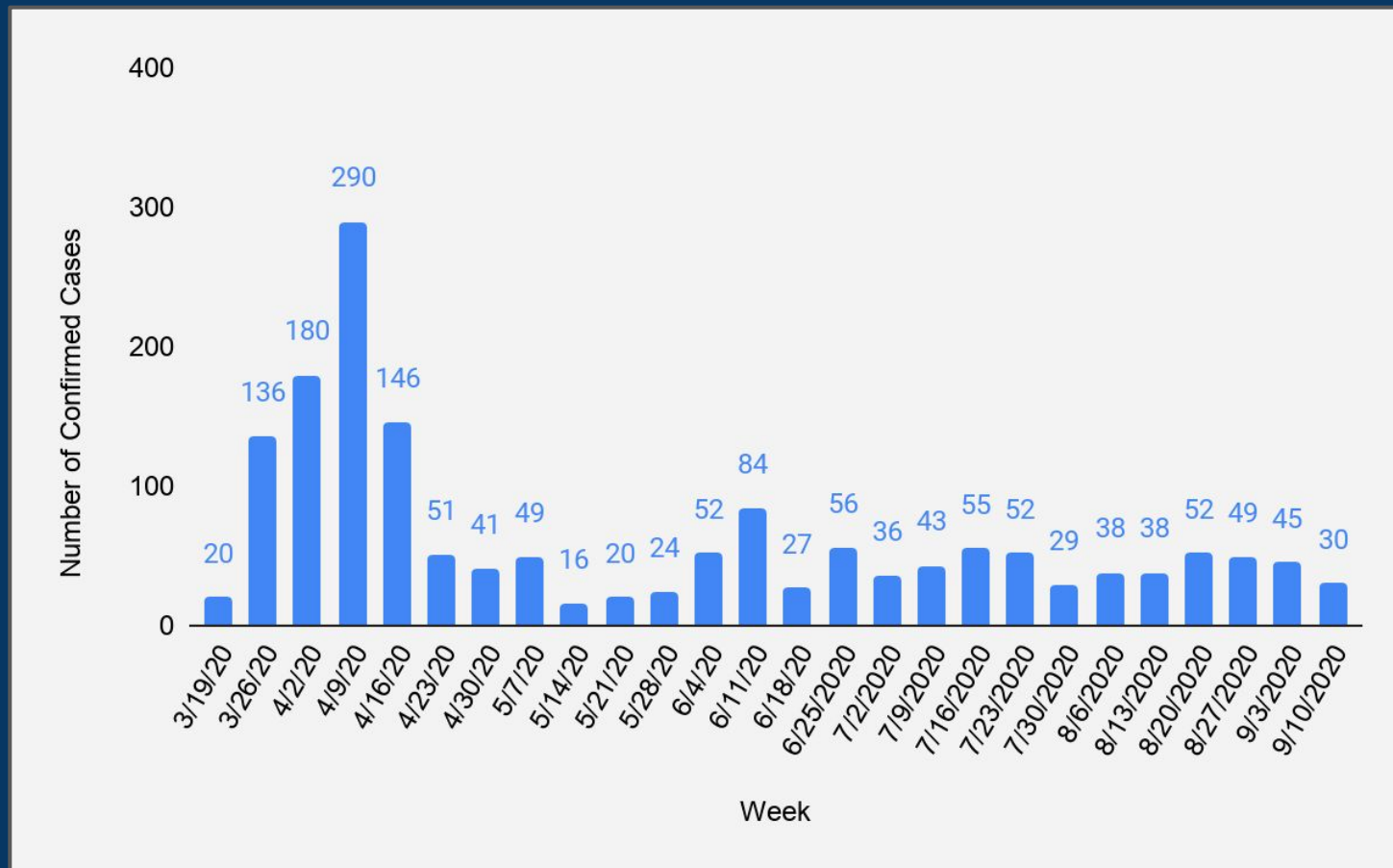
September 11, 2020

Presentation available at:
dfr.vermont.gov

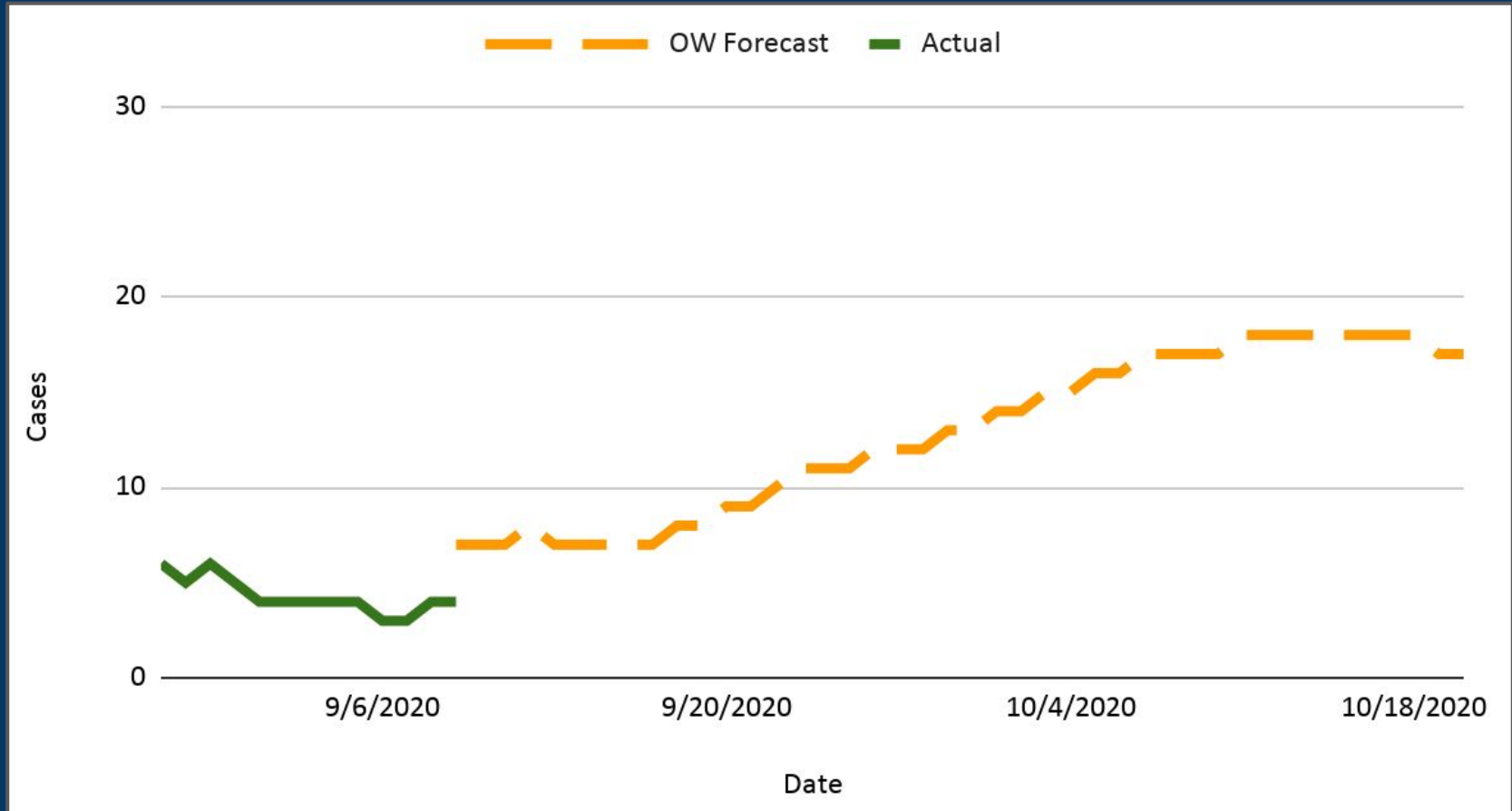
National: New Cases in Last 14 Days



Vermont Weekly Totals



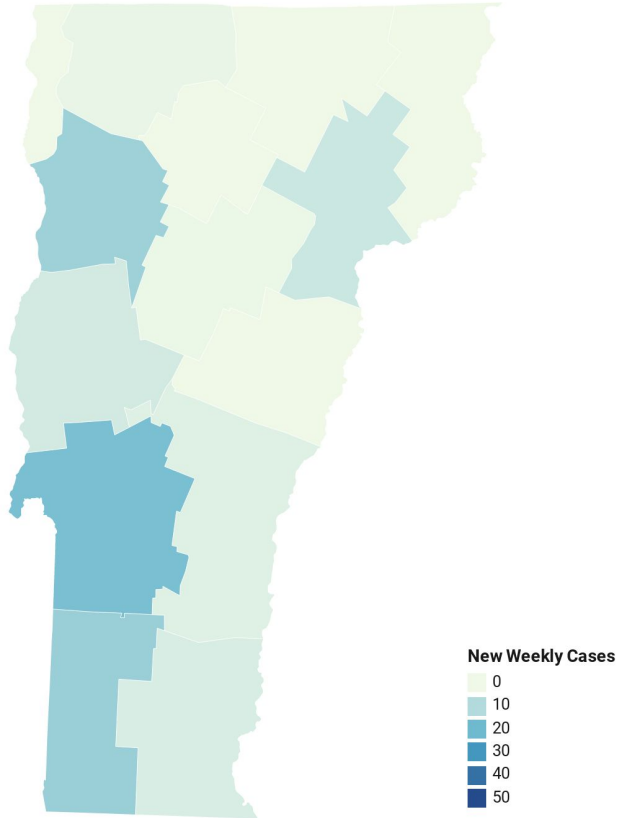
Vermont Forecast September 11th to October 20th



New Cases by County

Vermont Weekly Cases by County (per 100,000)

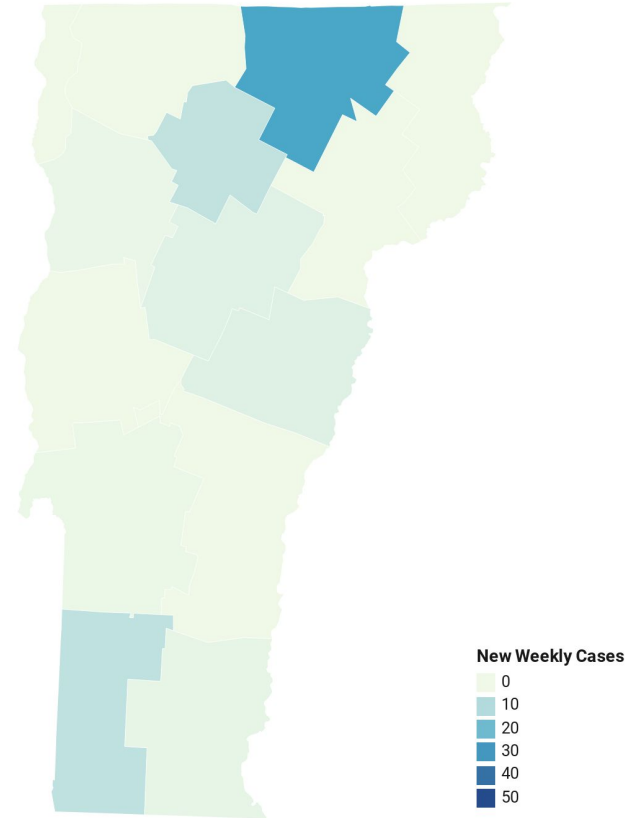
Results Reported August 28 to September 3



Map: Vermont DFR COVID Modeling Team • Source: Vermont Dept. of Health • Created with Datawrapper

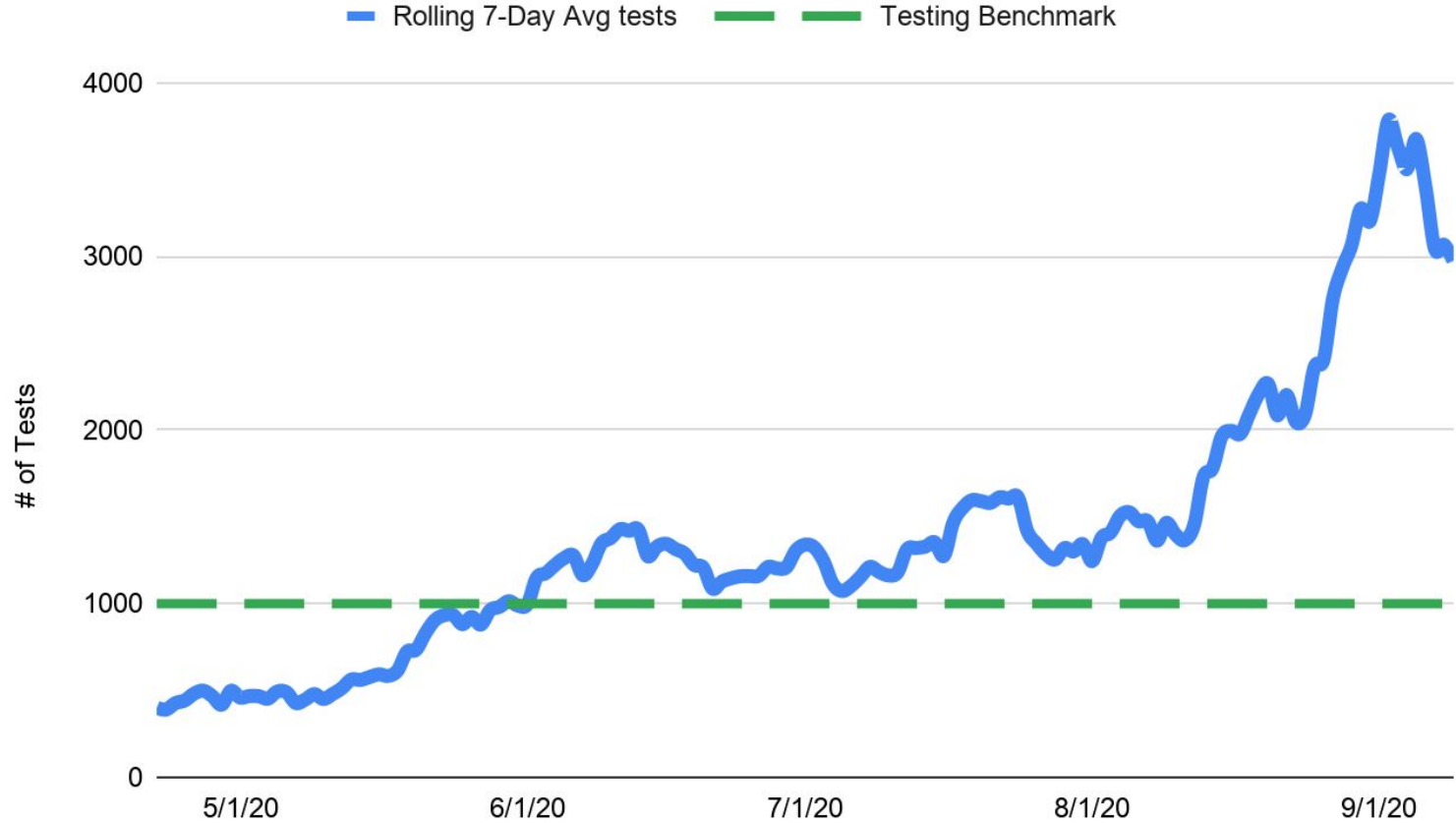
Vermont Weekly Cases by County (per 100,000)

Results Reported September 4 to 10



Map: Vermont DFR COVID Modeling Team • Source: Vermont Dept. of Health • Created with Datawrapper

7-Day Rolling Test Average



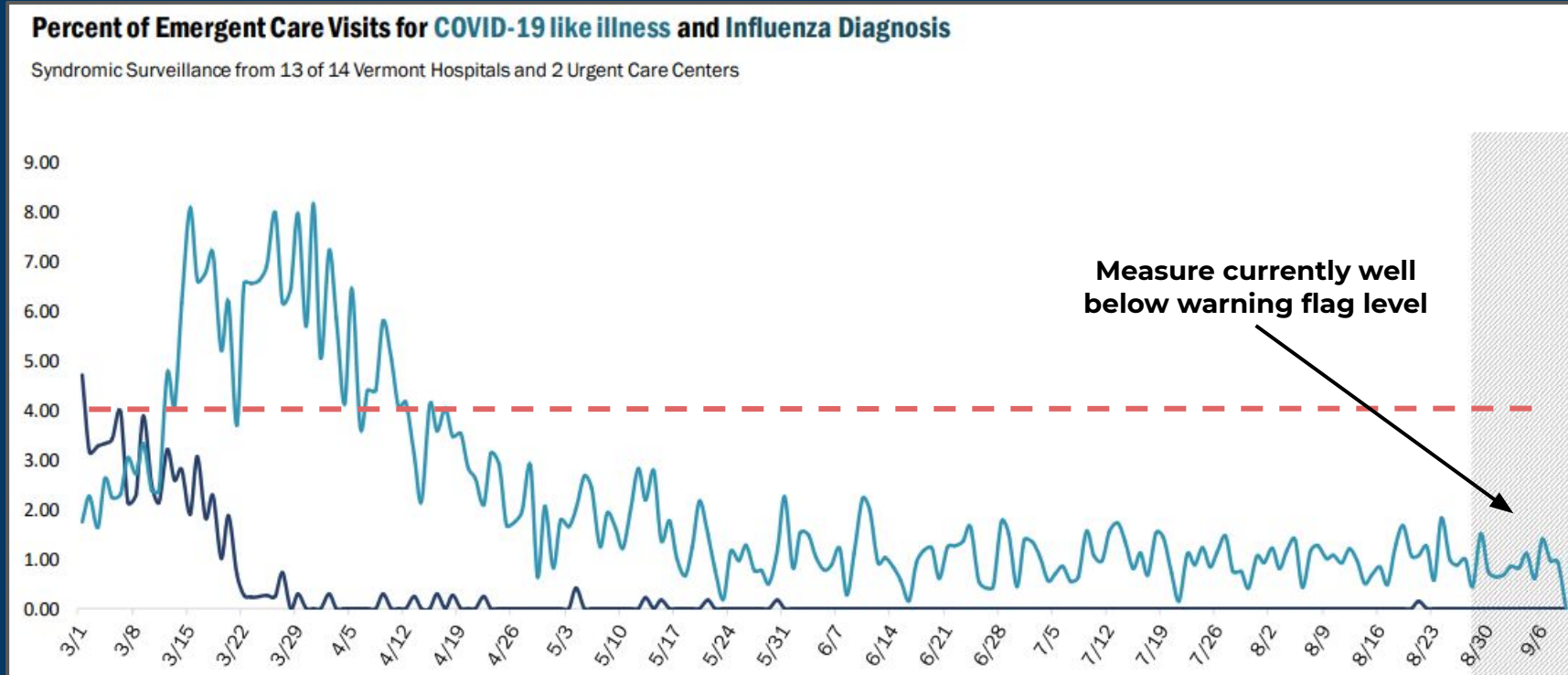
RESTART VERMONT

Reopening Metrics

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

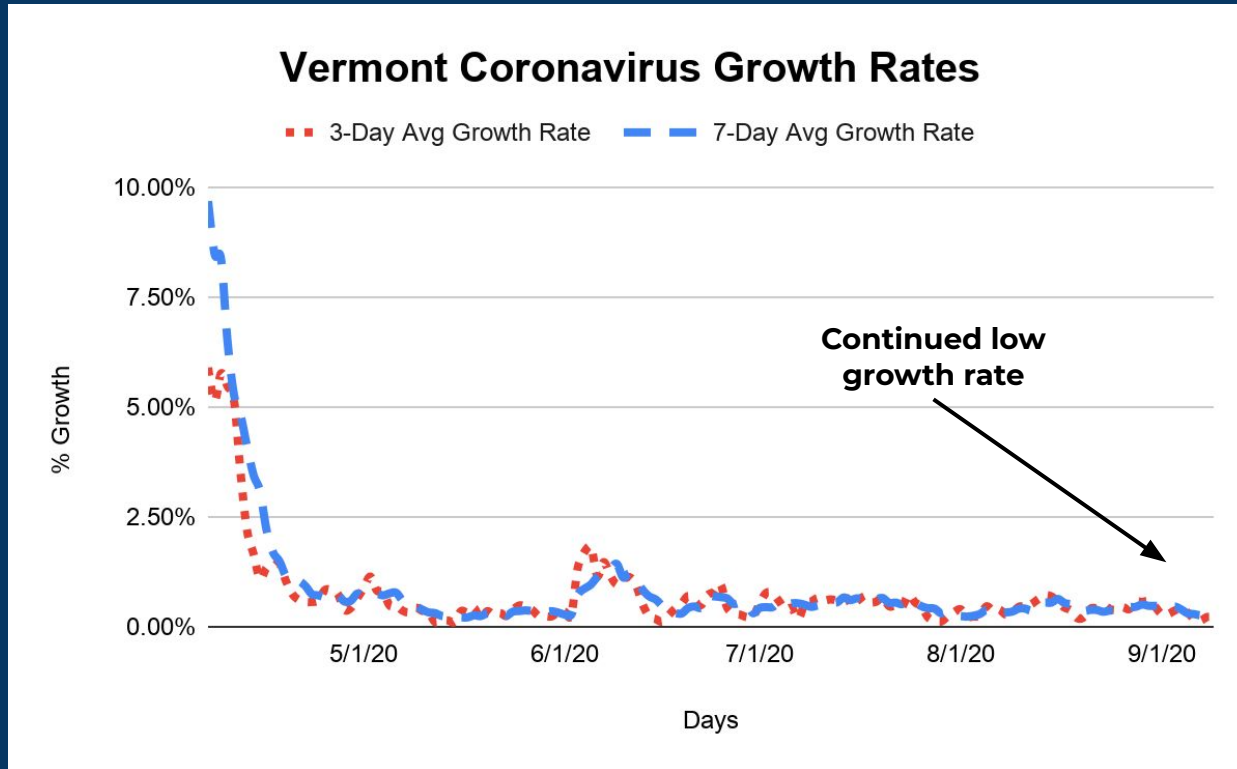
Data Point 1: Syndromic Surveillance

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



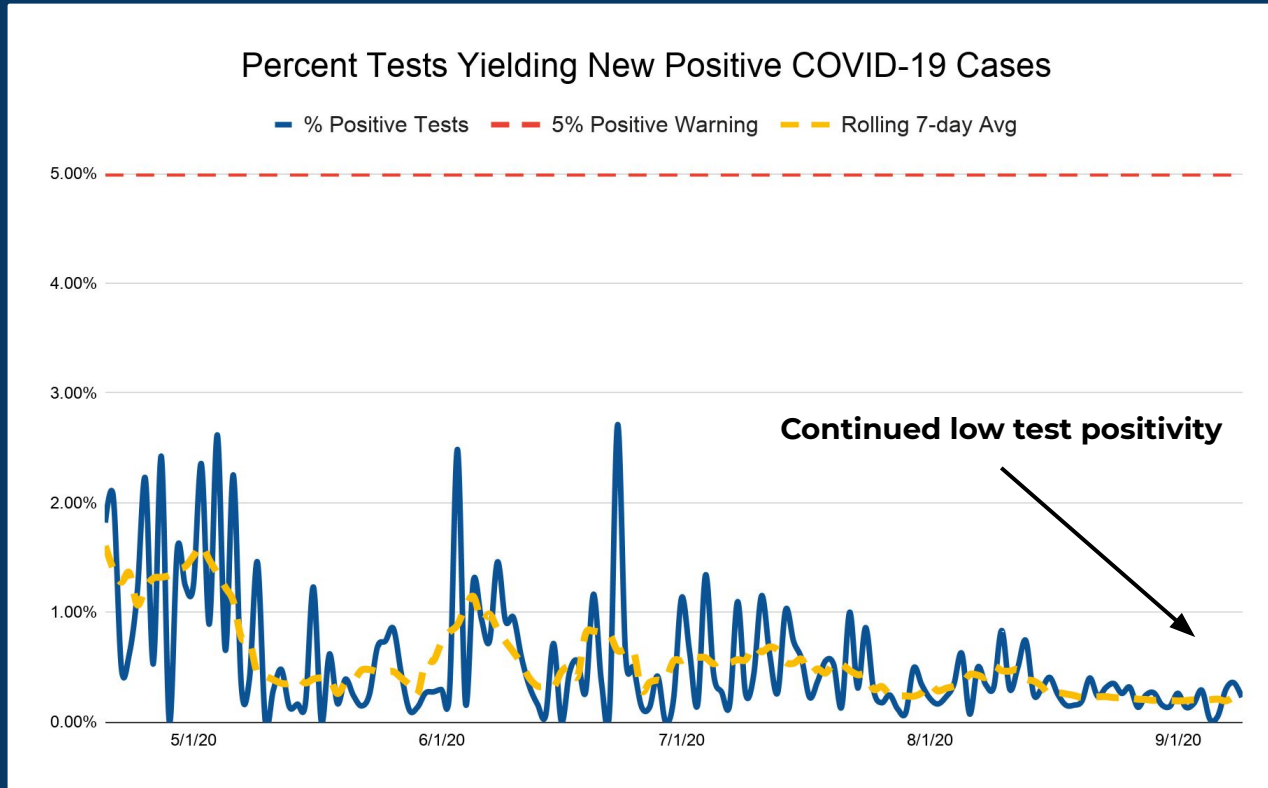
Data Point 2: Viral Growth and Reproductive Rates

- **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



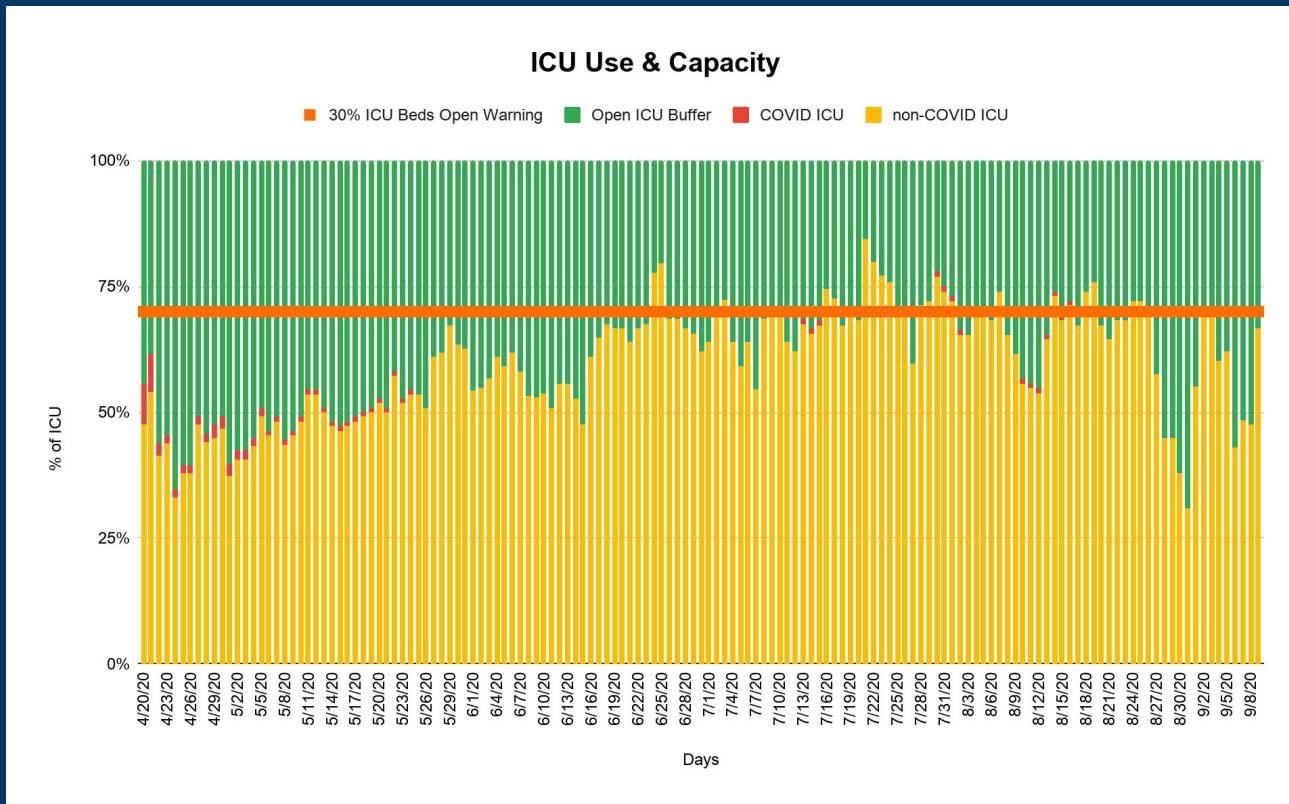
Data Point 3: Percentage of New Positive Tests

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



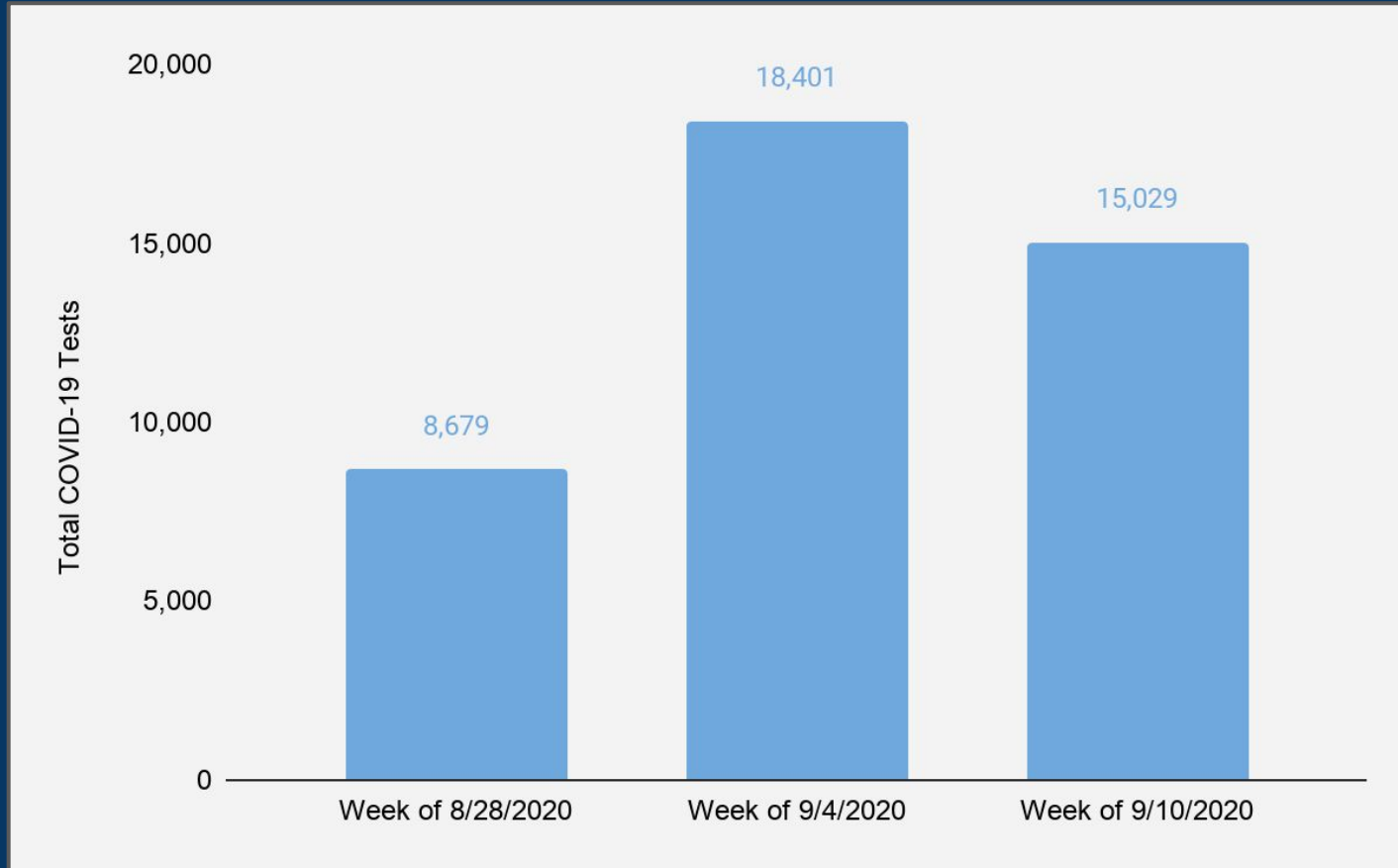
Data Point 4: Hospital & Critical Care Beds

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



Higher Education Update

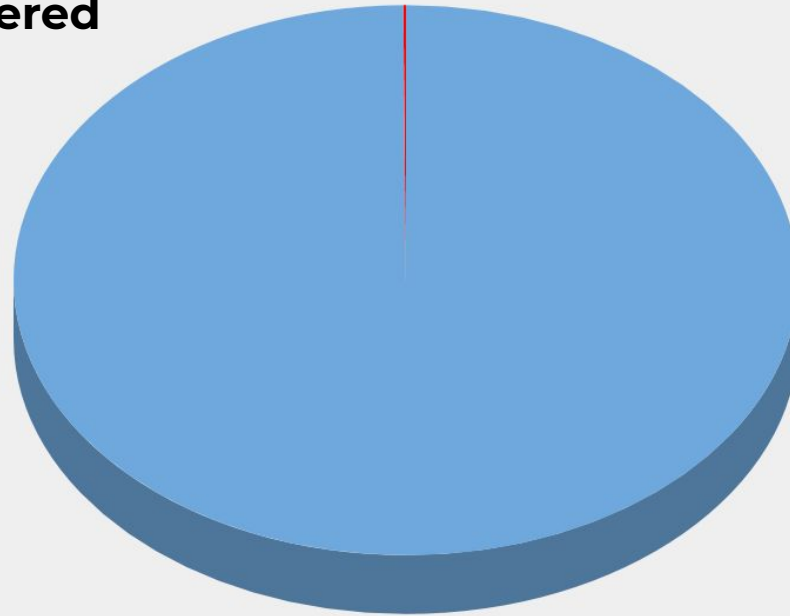
Vermont Colleges & Universities Testing Volume by Week



Cumulative Test Results for Vermont Colleges & Universities as of September 10, 2020




**42,109 Tests
Administered**

38 Positive Tests



0.09% Positivity Rate

Regional Higher Education Restart

		Total Tests	Positives	Positivity Rate
New Hampshire*		70,671	110	0.16%
Maine*		39,739	42	0.11%
Vermont		42,109	38	0.09%

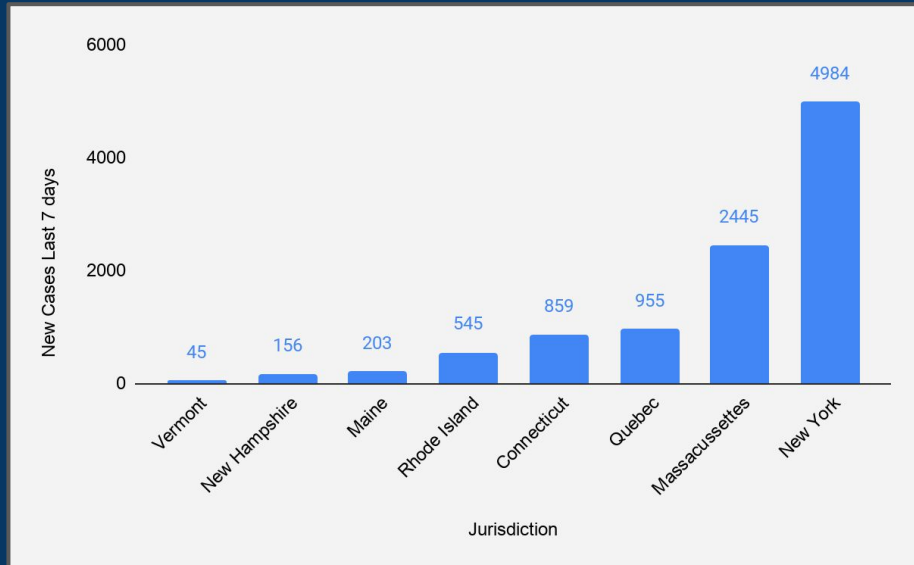
* Includes colleges & universities that publicly provide COVID-19 testing data.

Regional Data

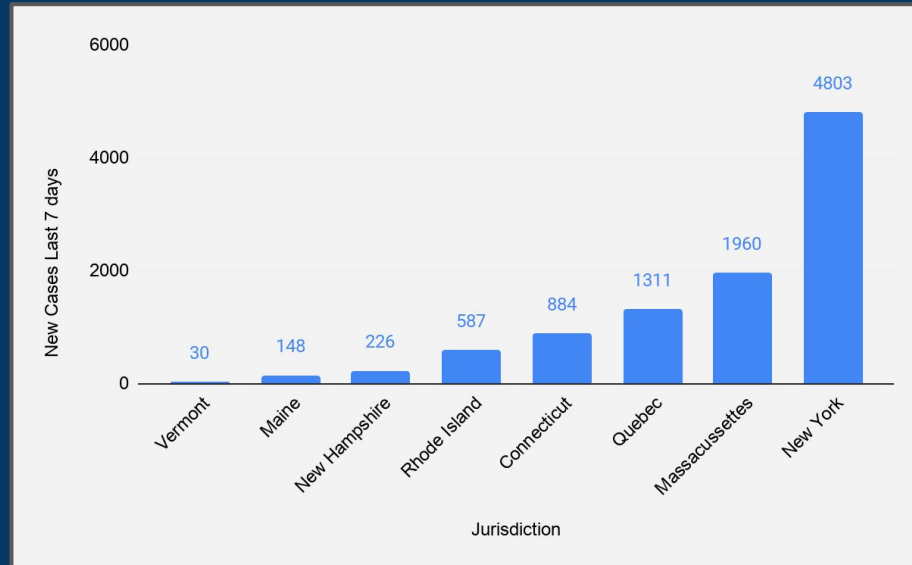
Regional Monitoring: New Cases Week Over Week

2.39% Decrease in New Confirmed Cases

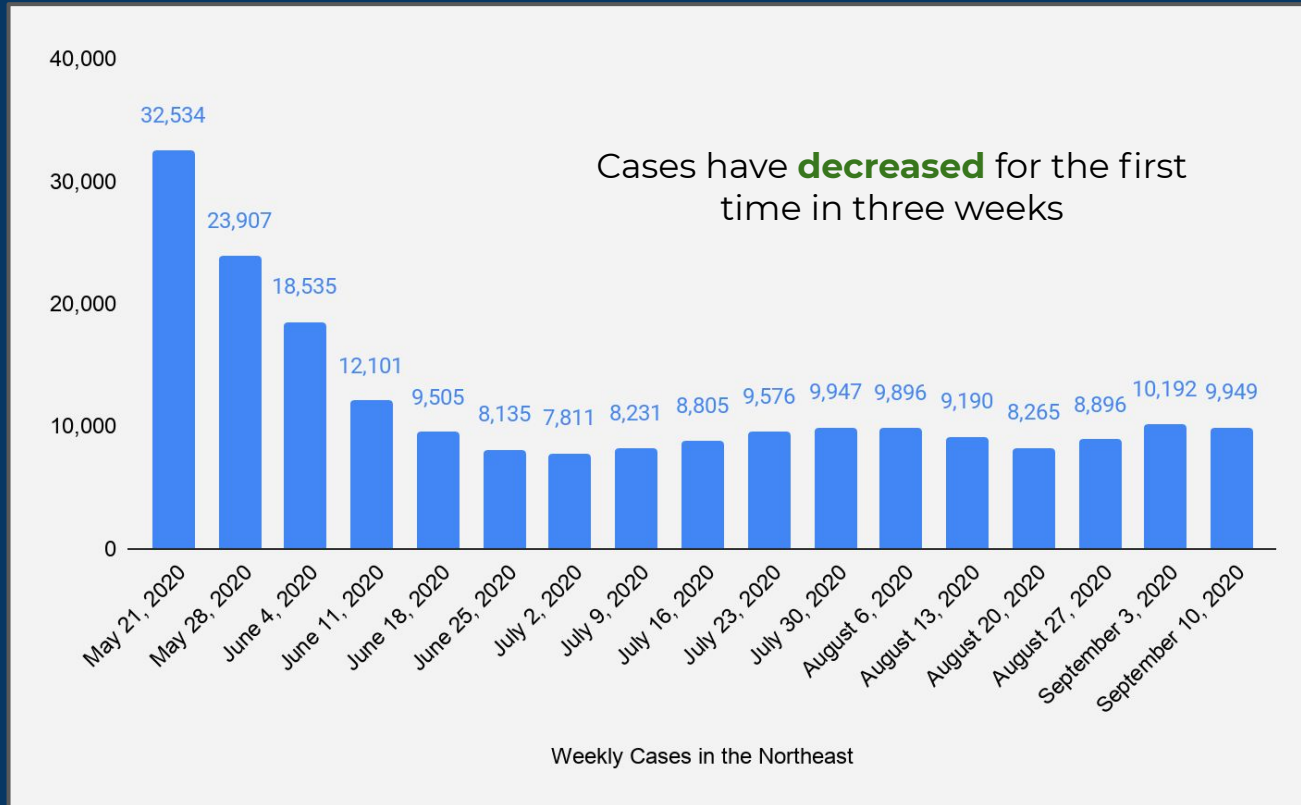
Positive Cases August 28th to Sept. 3rd



Positive Cases Sept. 4th to Sept. 10th

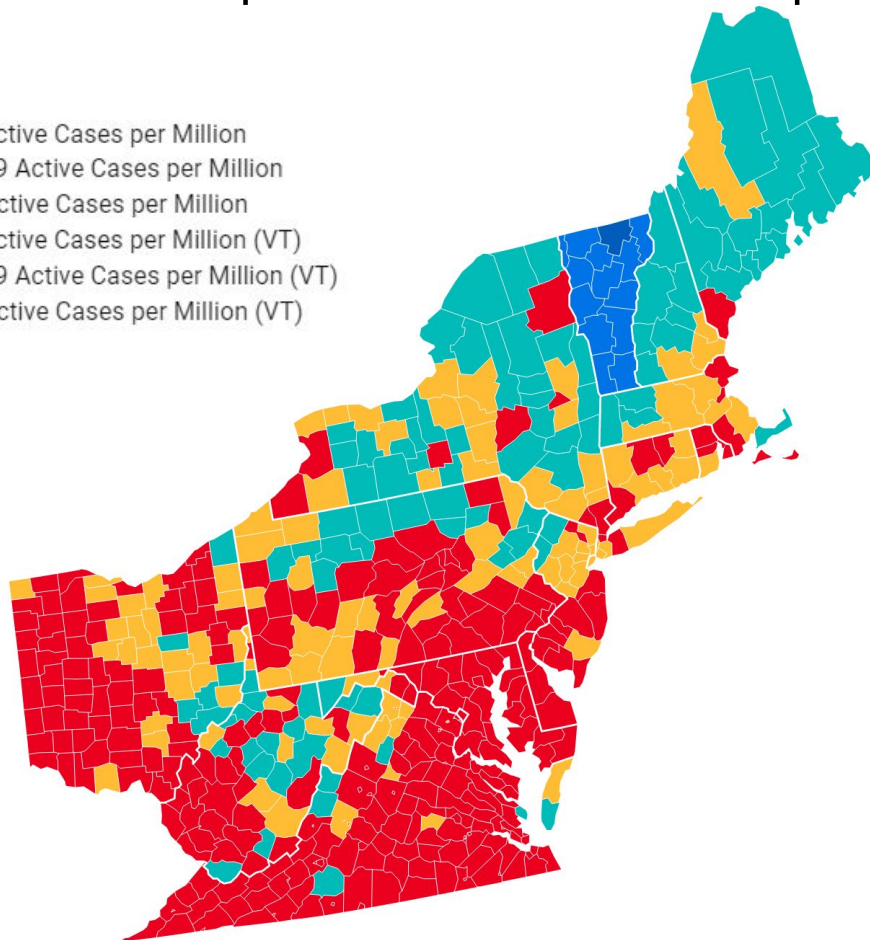
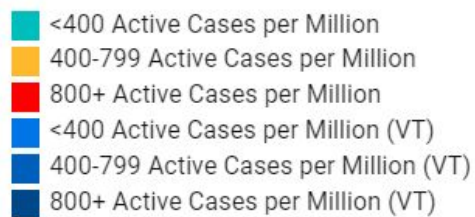


Regional Monitoring: Week Over Week Case Growth Since May 21, 2020



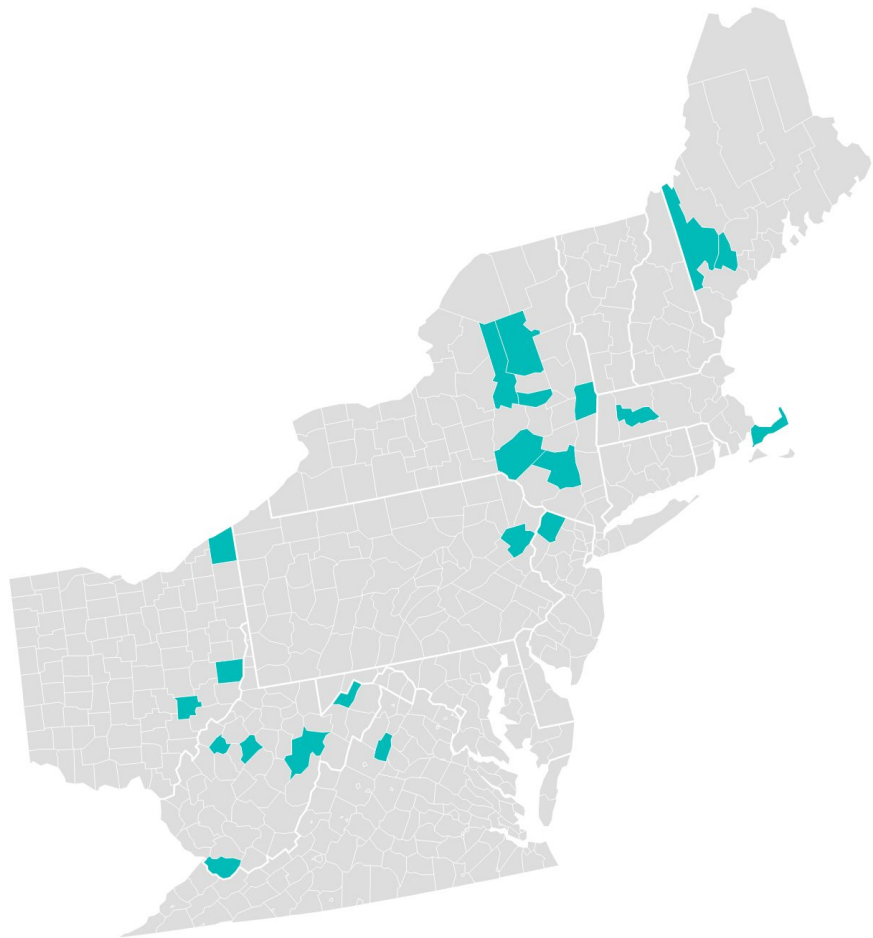
Travel Map Update

Updated Travel Map

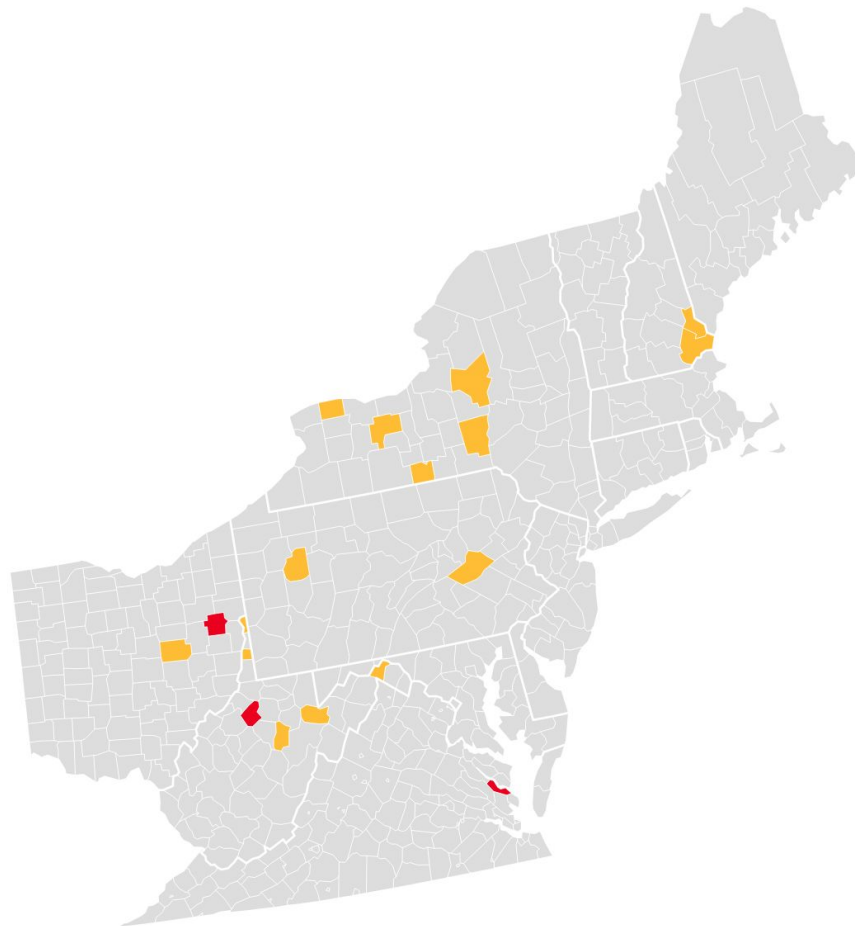


Source: Raw data from Johns Hopkins University—September 11, 2020 (dynamic map available at Vermont ACCD site)

Improving: Moving from Yellow or Red to Green



Worsening: Moving to Yellow or Red



Updated Travel Map

