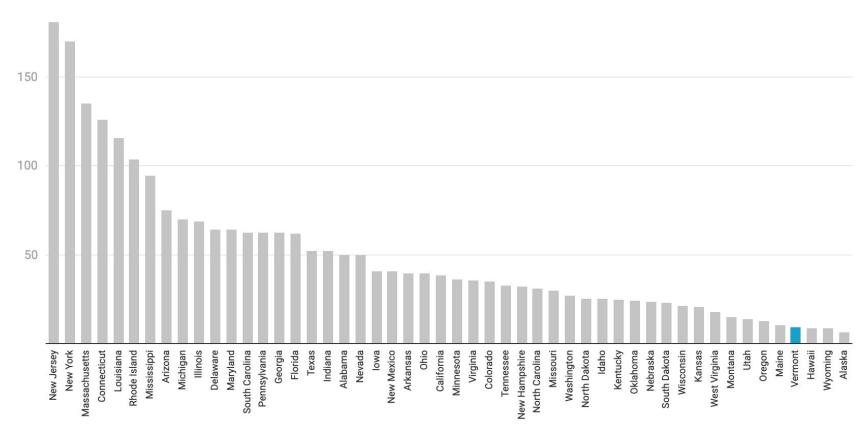
COVID-19 Modeling September 22, 2020

Presentation available at: dfr.vermont.gov

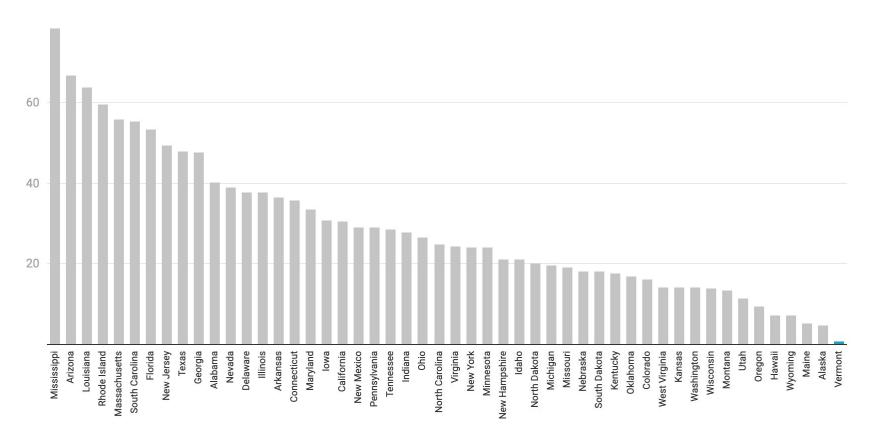
200,000+

Projected American COVID-19 deaths by the end of today*

COVID-19 Deaths per 100K since January 1st



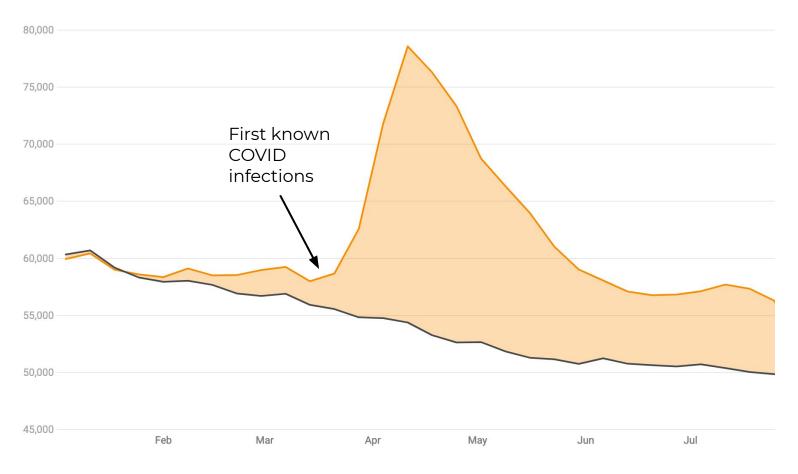
COVID-19 Deaths per 100K since May 15th



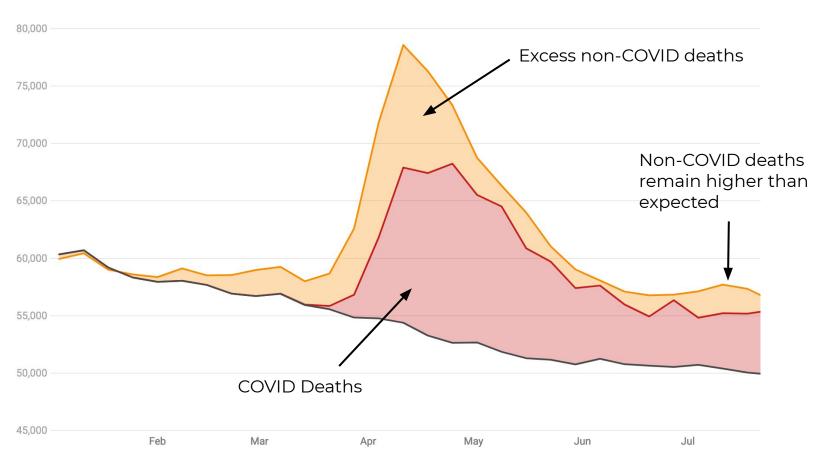
US Average Total Deaths 2015-2019



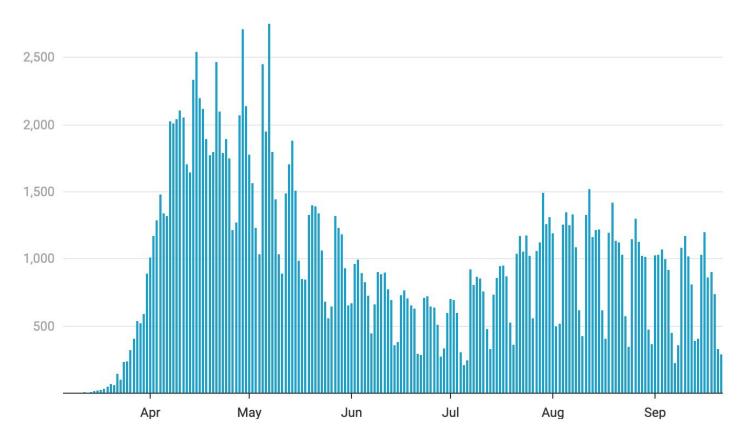
US Actual Deaths 2020

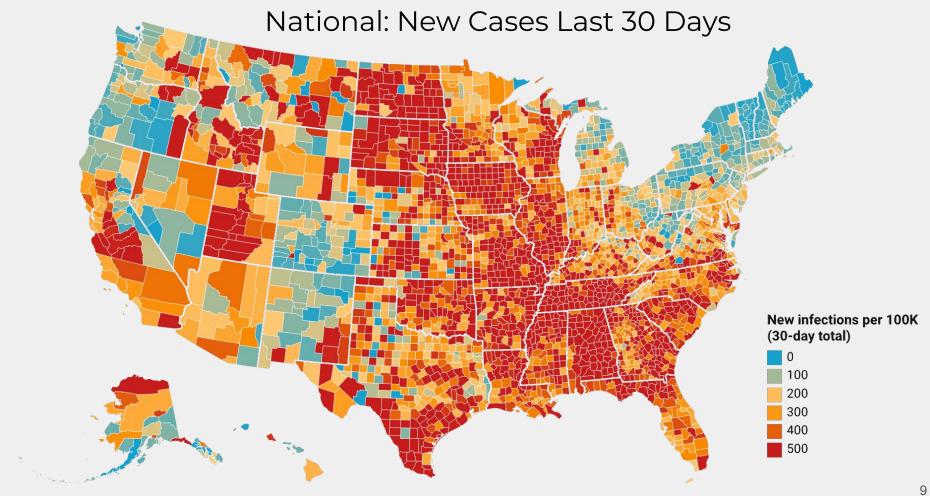


US Actual and COVID Deaths 2020

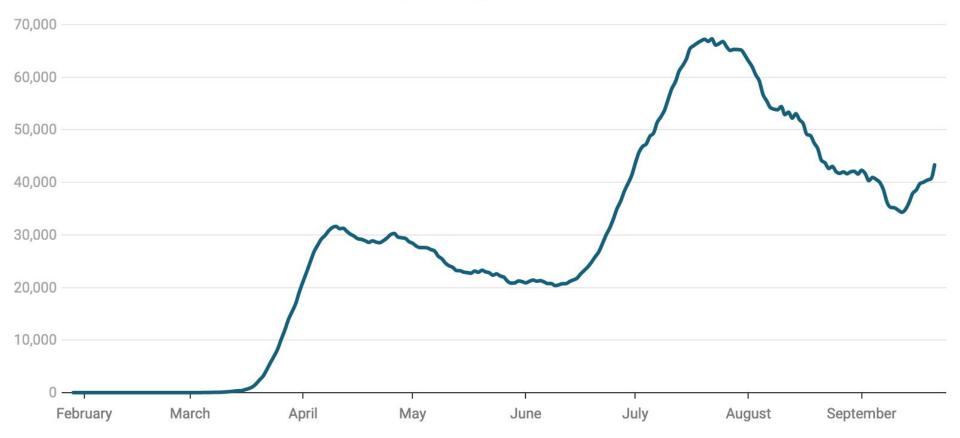


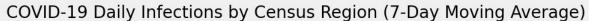
New COVID-19 deaths per day

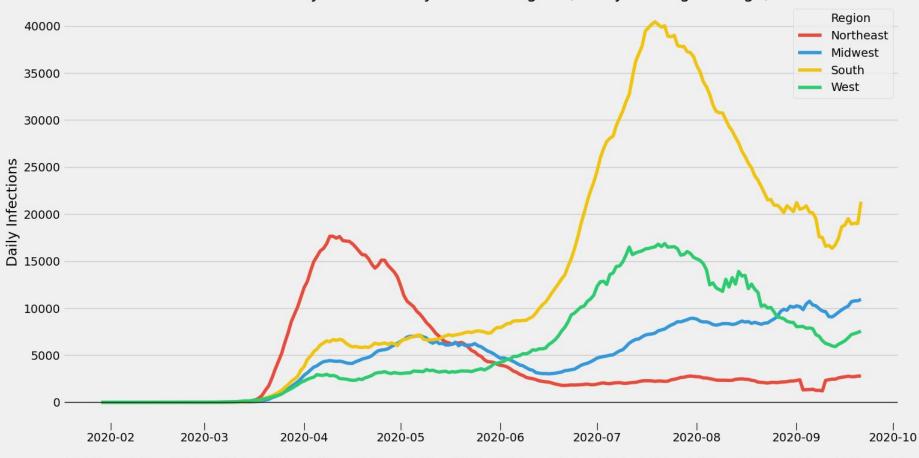




New confirmed COVID-19 cases per day



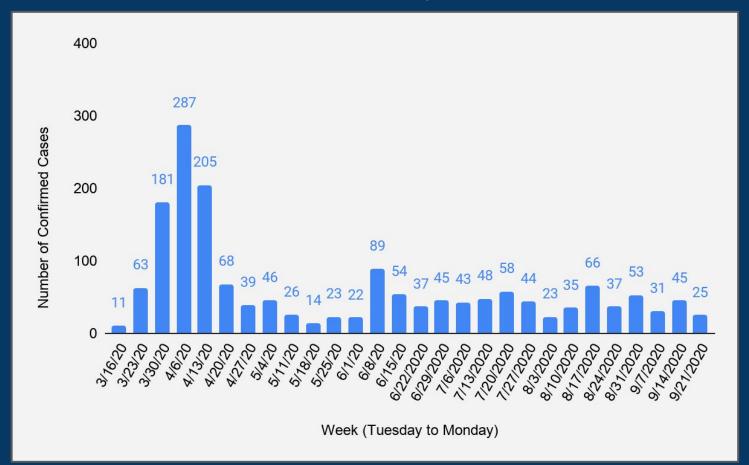




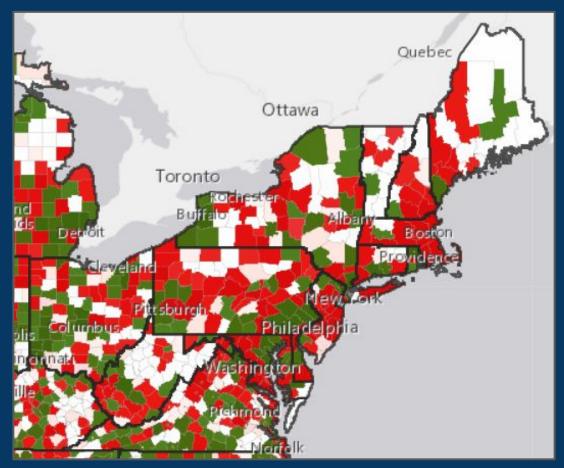
Vermont Summer 2020

- Tests: **188,898***
- Cases: 559
- Test Positivity: **0.30**%
- Averaged <2 people in the hospital statewide
- Averaged <1 people in the ICU statewide
- Deaths: 3

Vermont Weekly Totals



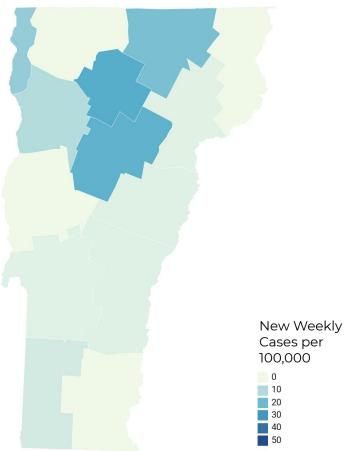
Regional Forecast September 20 to October 10



- Cases Projected to Decrease
- Cases Projected to Increase
- Cases Projected to Remain Flat

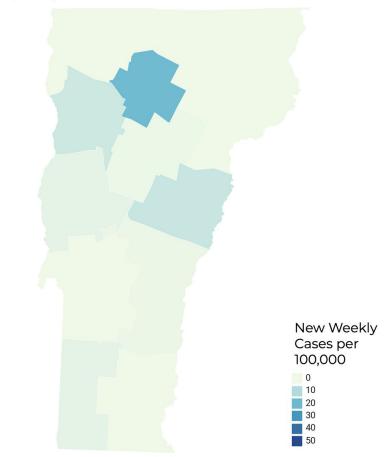
Vermont Weekly Cases by County (per 100,000)

Results Reported September 8 to 14



Vermont Weekly Cases by County (per 100,000)

Results Reported September 15 to 21



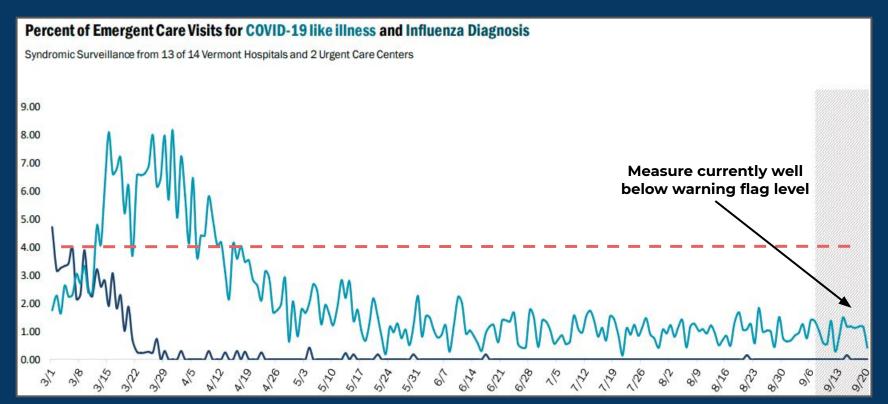
RESTART VERMONT

Reopening Metrics

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

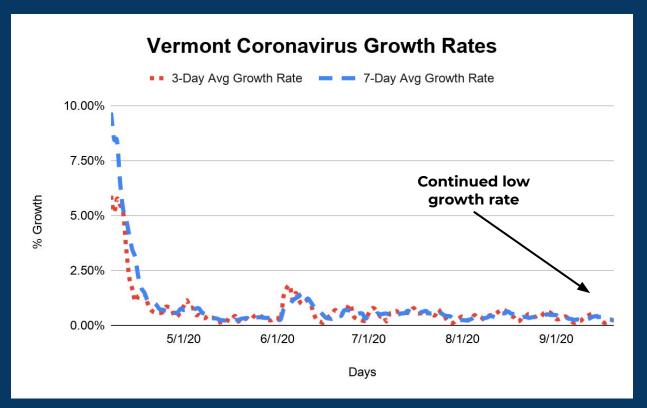
Data Point 1: Syndromic Surveillance

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



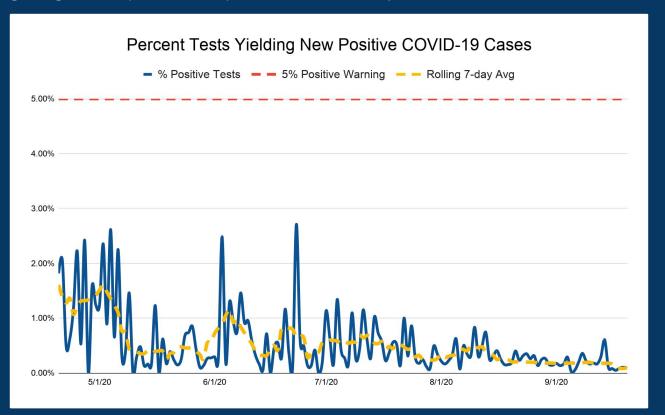
Data Point 2: Viral Growth and Reproductive Rates

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



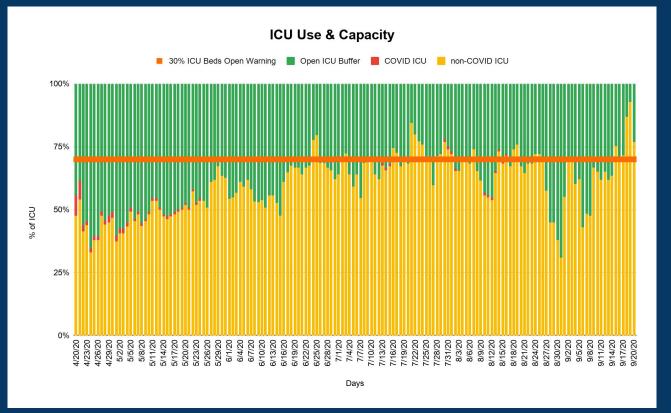
Data Point 3: Percentage of New Positive Tests

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

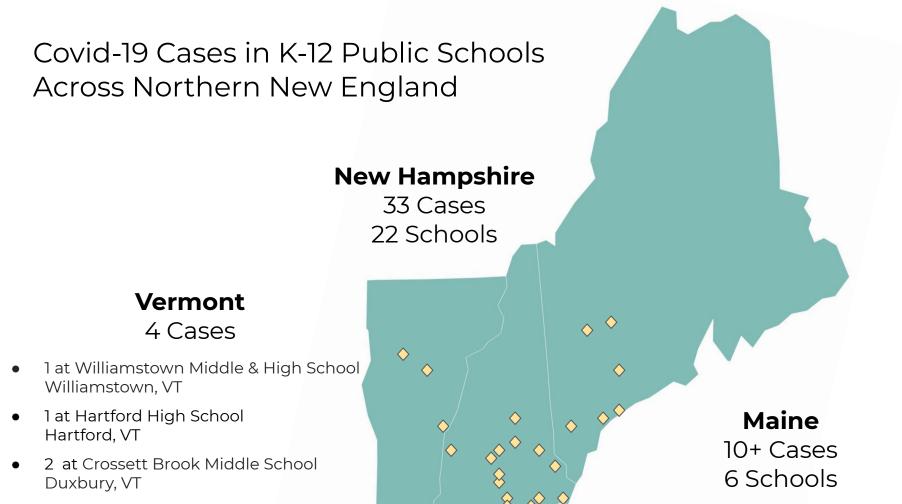


Data Point 4: Hospital & Critical Care Beds

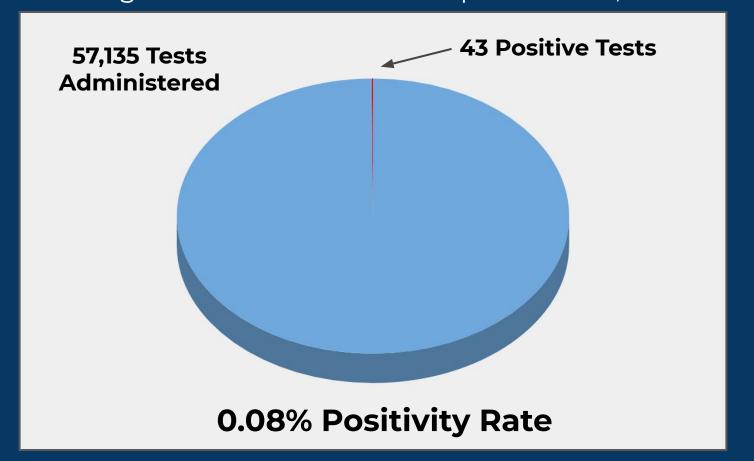
- **Summary:** Number of occupied and unoccupied medical surgical and ICU beds
- Warning Flags: Reduction in ICU open beds to less than 30%



K-12 & Higher Education Update



Cumulative Test Results for Vermont Colleges & Universities as of September 22, 2020



Individual Test Results for Vermont Colleges & Universities as of September 21, 2020

College / University	Total Tests	Total Positives	Dashboard / Public Information
Middlebury College	5,901	2	https://www.middlebury.edu/office/midd2021/covid-reporting-dashboard
University of Vermont	31236	25*	https://www.uvm.edu/returntocampus/uvm-weekly-testing-report
Norwich University	5,745	5	https://www.norwich.edu/news/psa
Northern Vermont University	2491	0	https://www.northernvermont.edu/nvu-during-covid-19
Castleton University	1,065	2	https://www.castleton.edu/covid-19-coronavirus-updates/covid-19-test-results/
Vermont Technical College	358	3	https://www.vtc.edu/update-on-the-covid-19-coronavirus/
Saint Michael's College	2001	0	https://www.smcvt.edu/return-to-campus/
Sterling College	86	0	Does not have a public dashboard at this time
Champlain College	5,428	2	https://view.champlain.edu/champlain-college-covid-19-testing-dashboard/
Bennington College	1,690	3	https://www.bennington.edu/covid-19-updates-and-information
Vermont Law School	161	0	Remote learning for Fall 2020 - Some students using campus facilitites
Landmark College	875	1	https://www.landmark.edu/student-life/health-counseling-wellness/covid-19/covid-19-dashboard
Albany College of Pharmacy	98	0	https://www.acphs.edu/health-safety
Totals	57,135	43	
	-		

Note: Goddard College, Vermont College of Fine Arts, Community College of Vermont

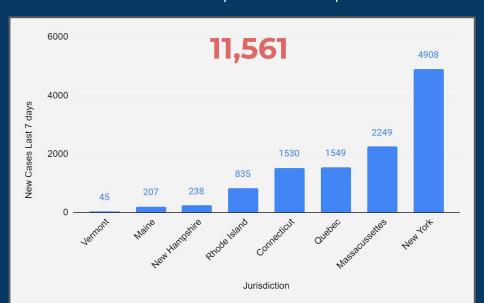
^{*} Reconciling data that could possiblity remove up to 6 cases from the UVM count.

Regional Data

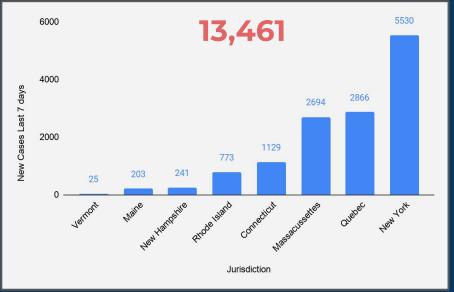
Regional Monitoring: New Cases Week Over Week

16.43% Increase in New Confirmed Cases

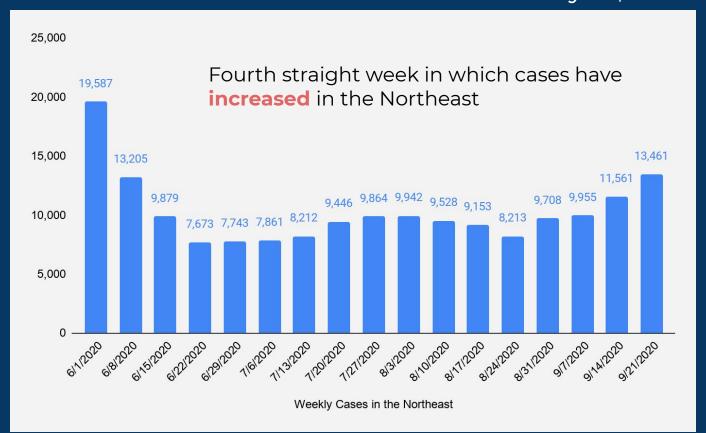
Positive Cases Sept. 7th to Sept. 14th



Positive Cases Sept. 14th to Sept. 20th

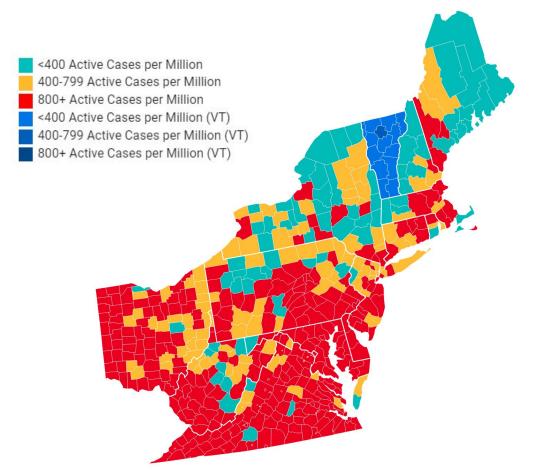


Regional Monitoring: Week Over Week Case Growth Since May 21, 2020



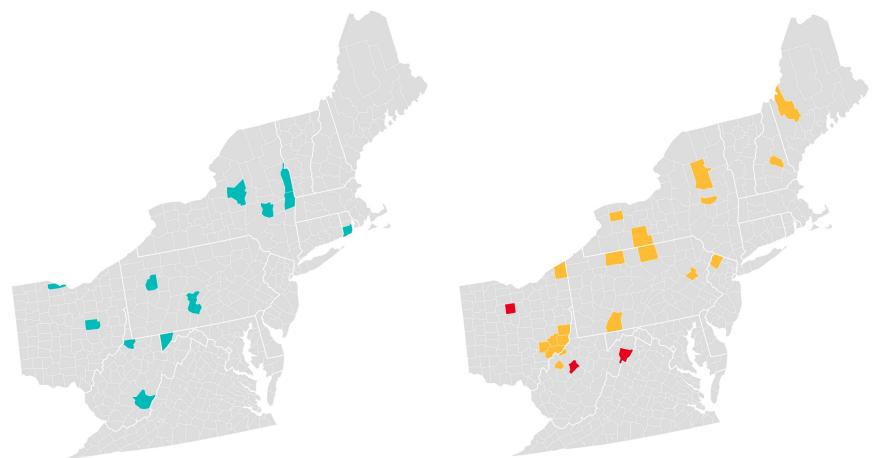
Travel Map Update

Updated Travel Map



Improving: Moving from Yellow or Red to Green

Worsening: Moving to Yellow or Red



Updated Travel Map

