*Office of Governor Philip B. Scott*

# COVID-19

# VERMONT'S RESPONSE

*Tuesday Oct. 27, 2020*

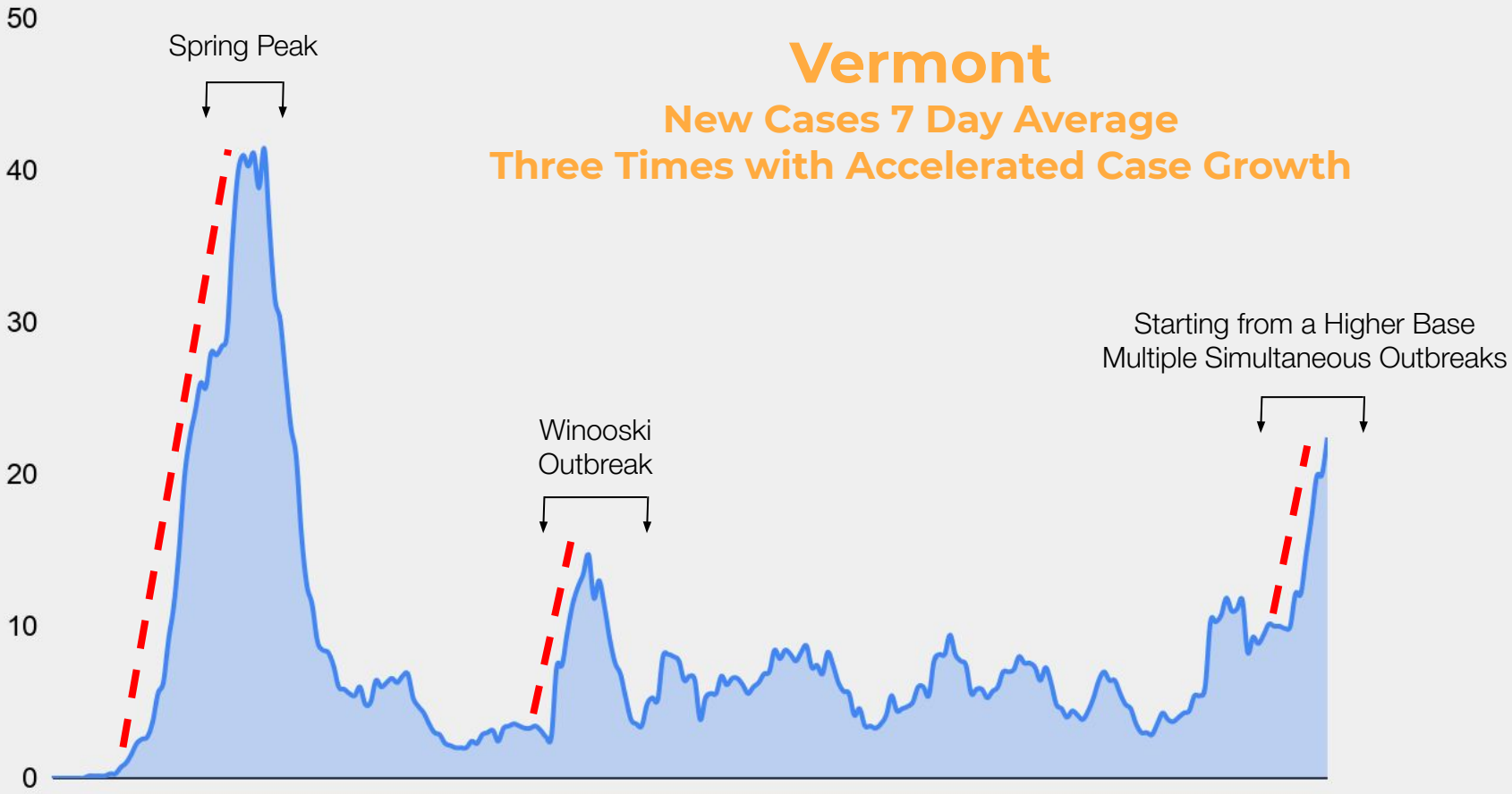
@GovPhilScott

# COVID-19 Modeling
# October 27, 2020

Presentation available at:
dfr.vermont.gov

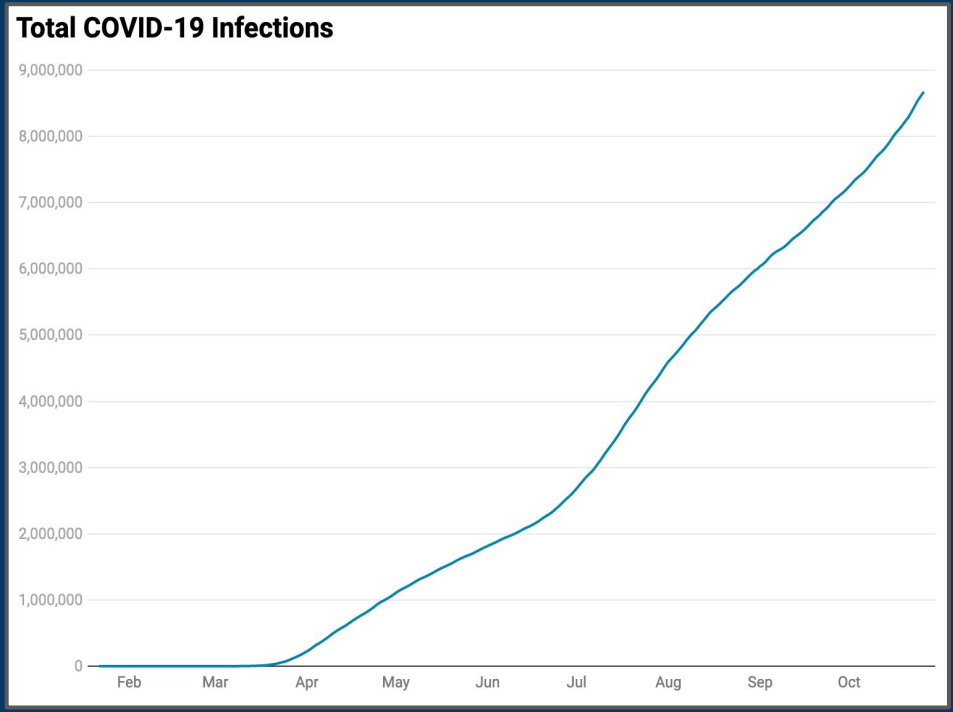
# Vermont

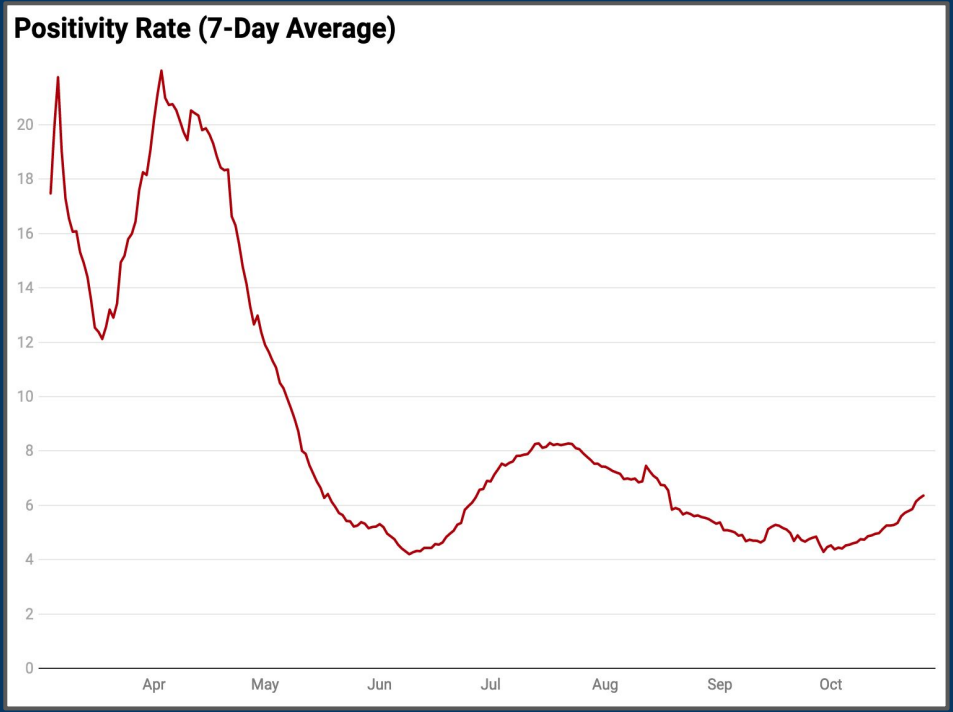
## New Cases 7 Day Average
## Three Times with Accelerated Case Growth



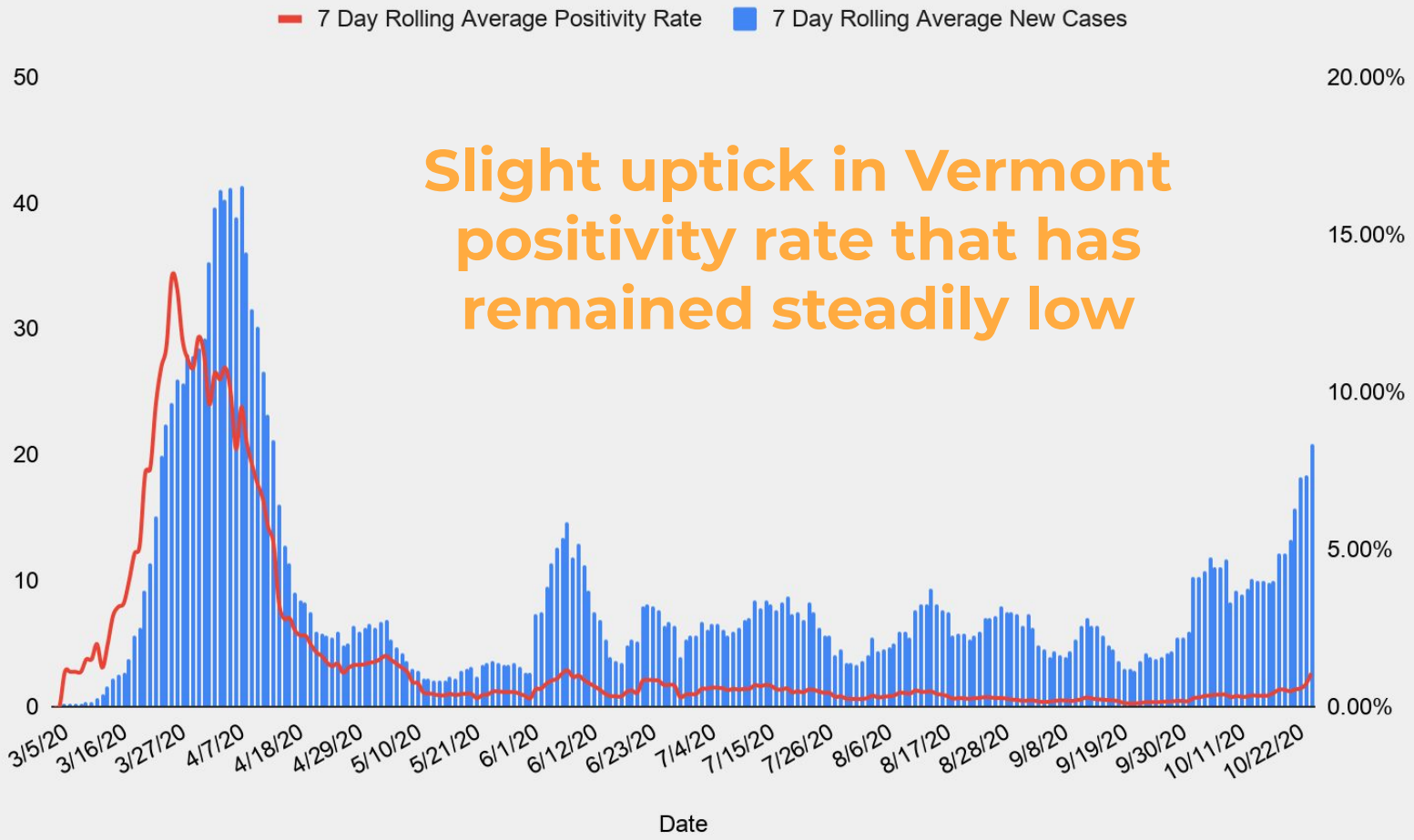

Source: Vermont Department of Health - October 27, 2020

# National Case Growth

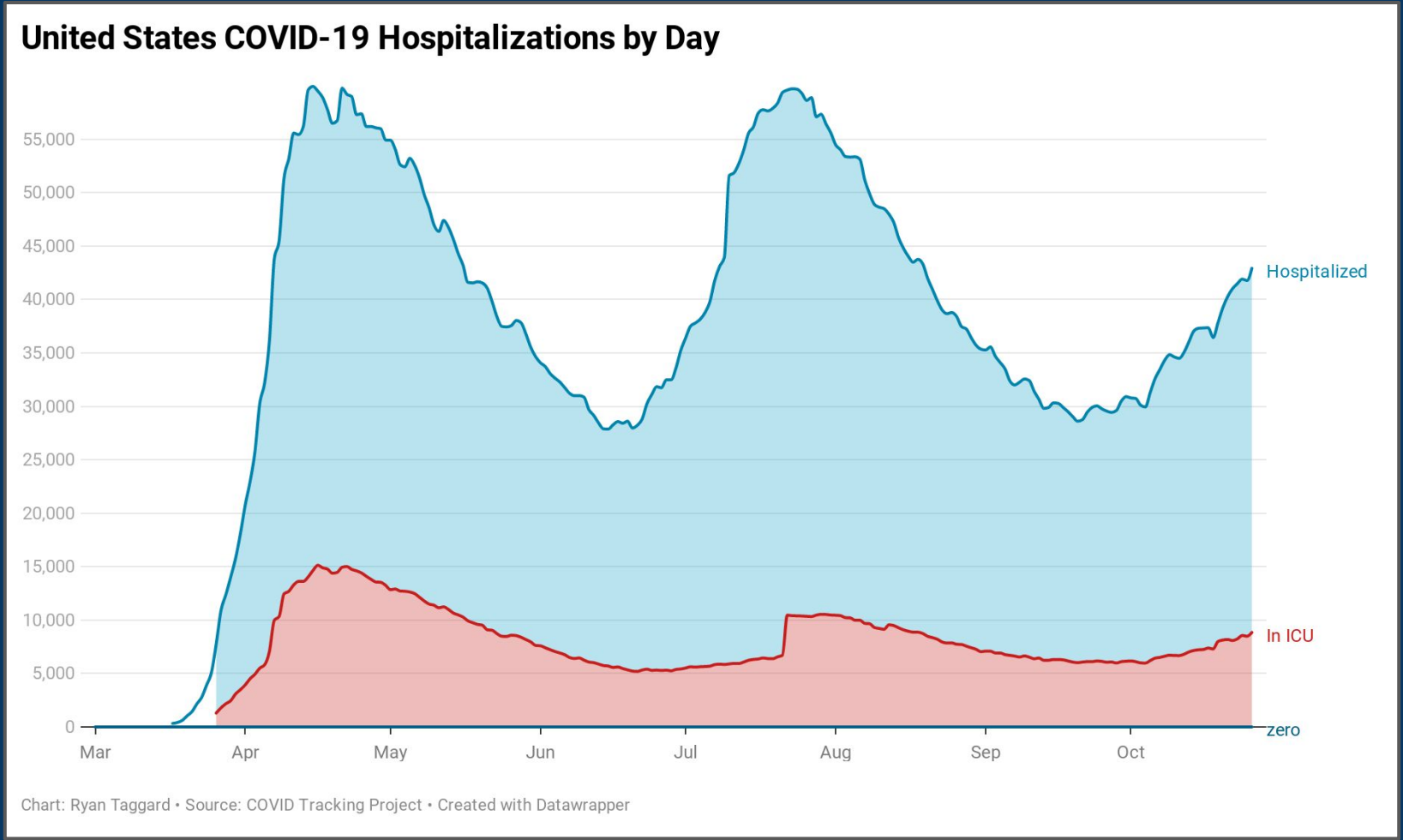


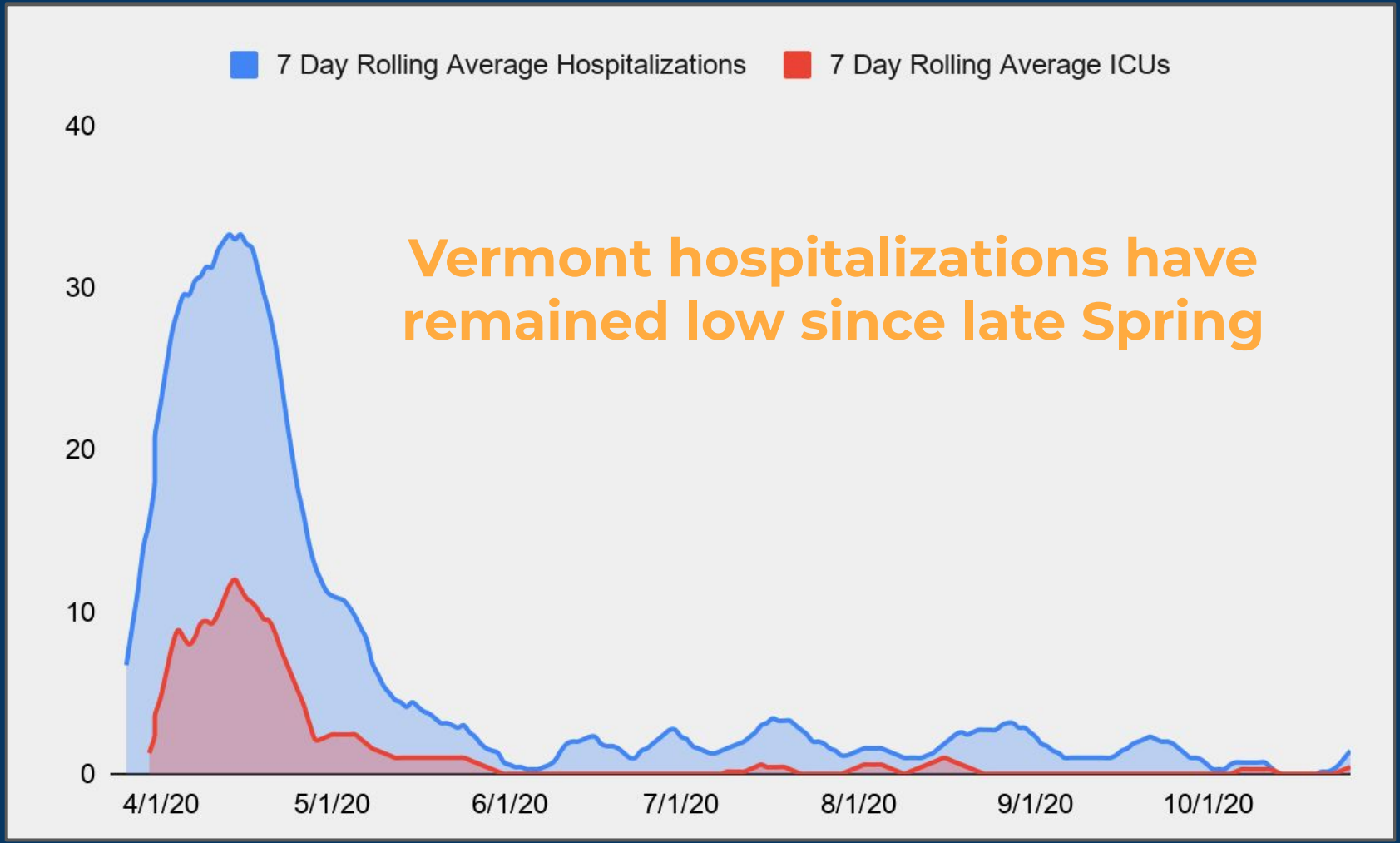

Source: Raw data from COVID Tracking Project—October 27, 2020



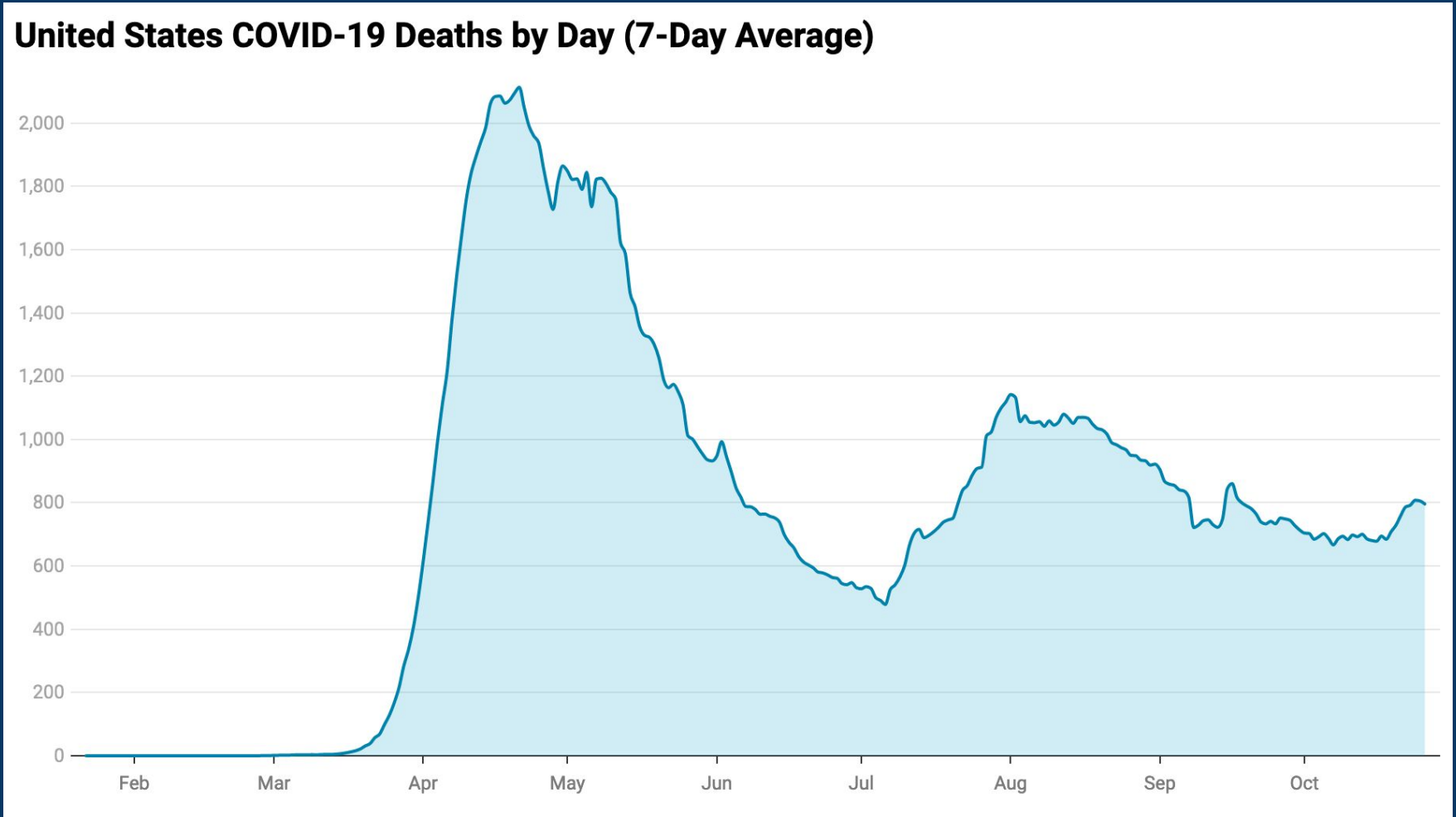

**Slight uptick in Vermont positivity rate that has remained steadily low**



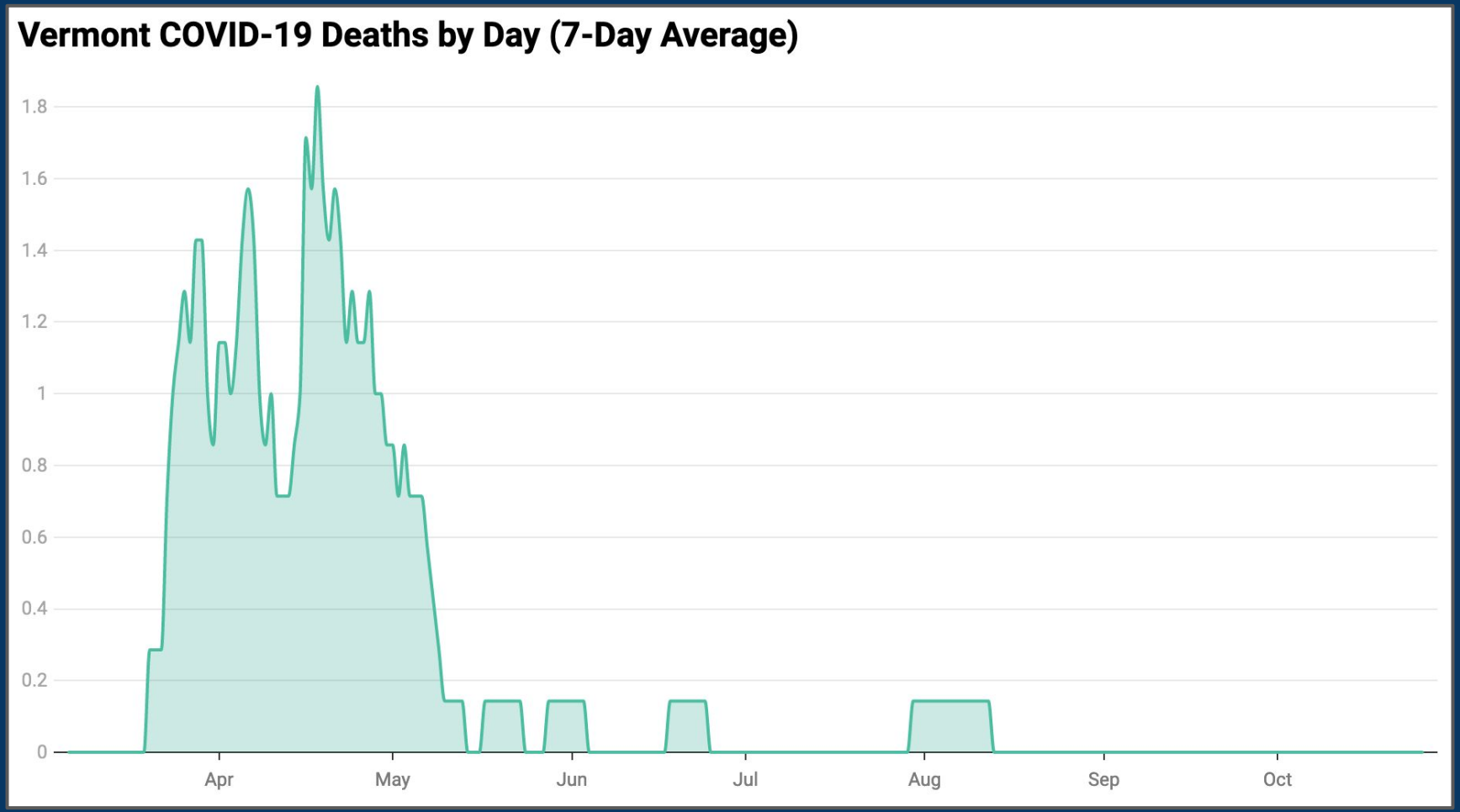

Source: Raw data from COVID Tracking Project—October 27, 2020




Source: Vermont Department of Health - October 27, 2020

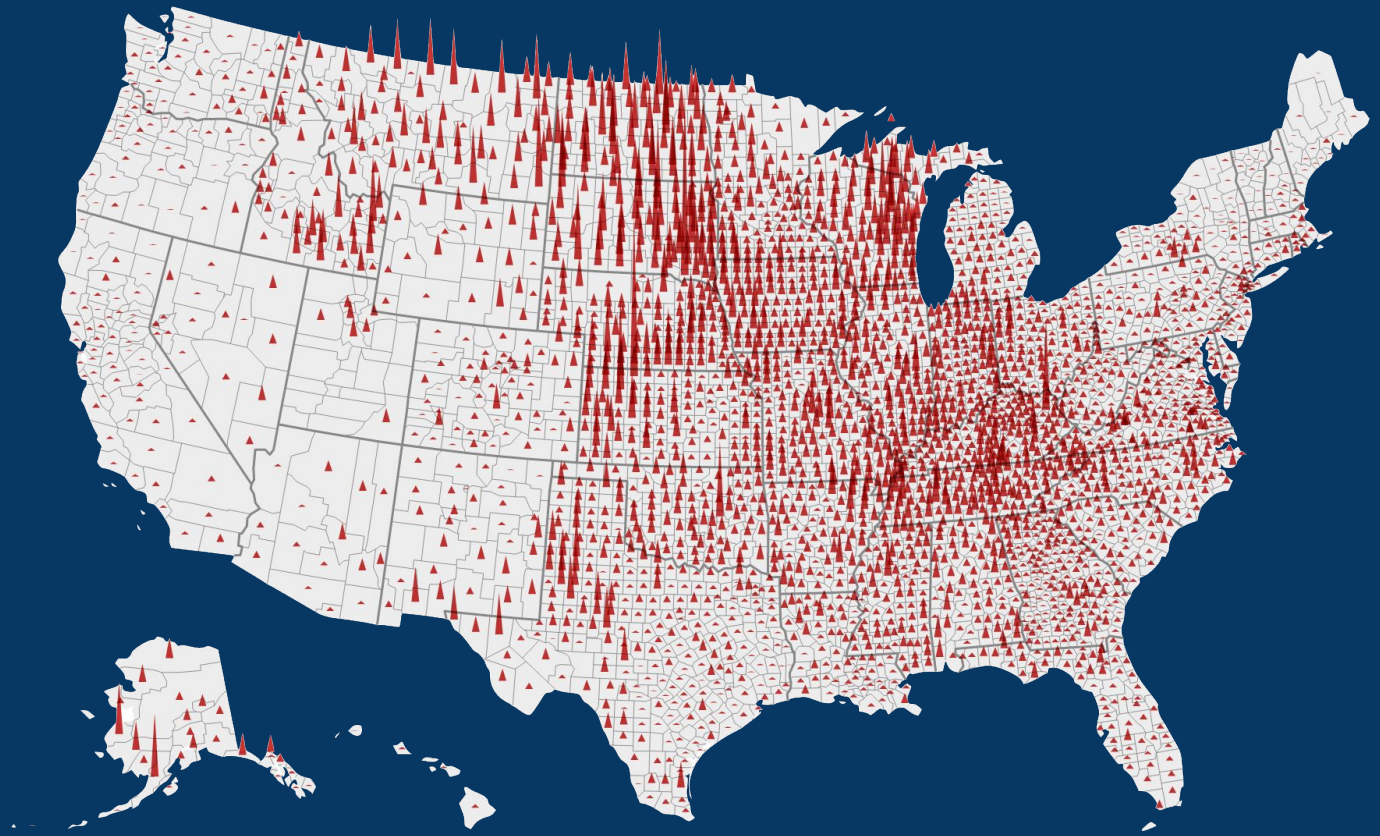



Source: Raw data from COVID Tracking Project—October 27, 2020




Source: Raw data from COVID Tracking Project—October 27, 2020

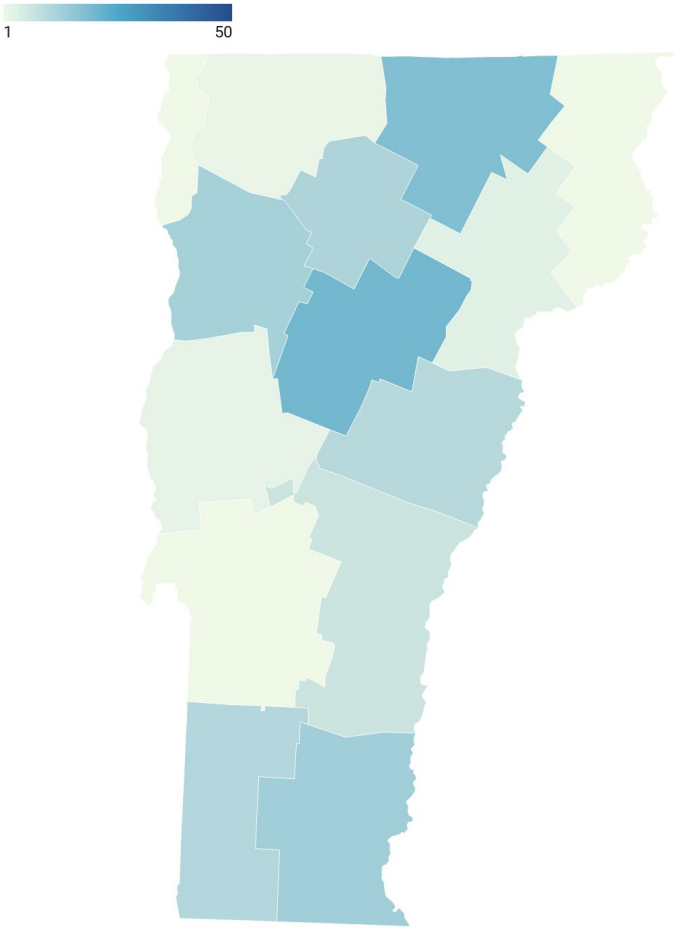
# Developing Third Peak



Source: Raw data from Johns Hopkins University—October 27, 2020

## Vermont Weekly Cases by County (per 100,000)

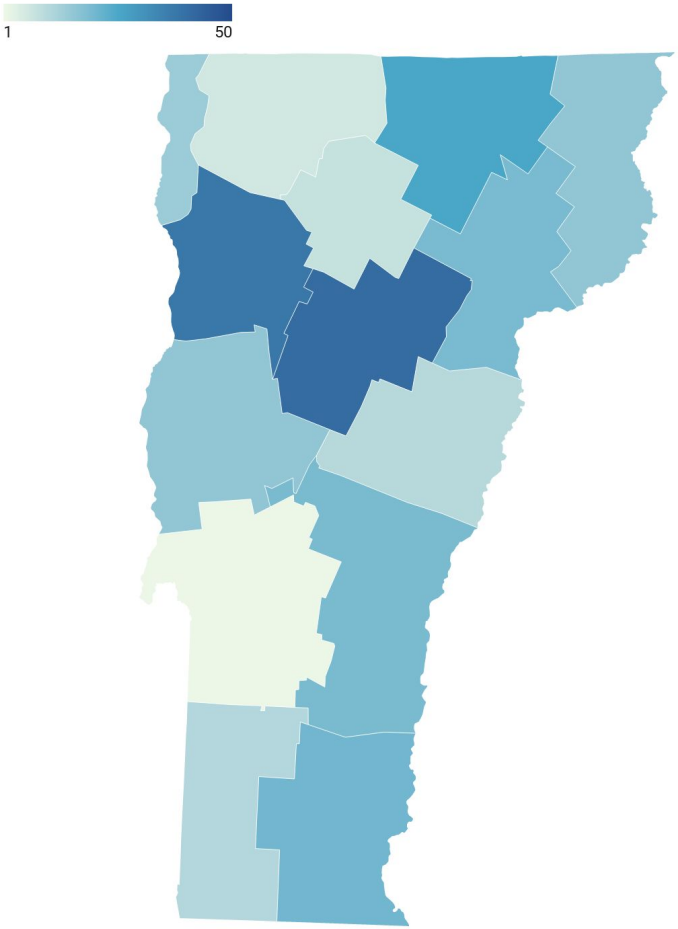
Results Reported October 13 to 19



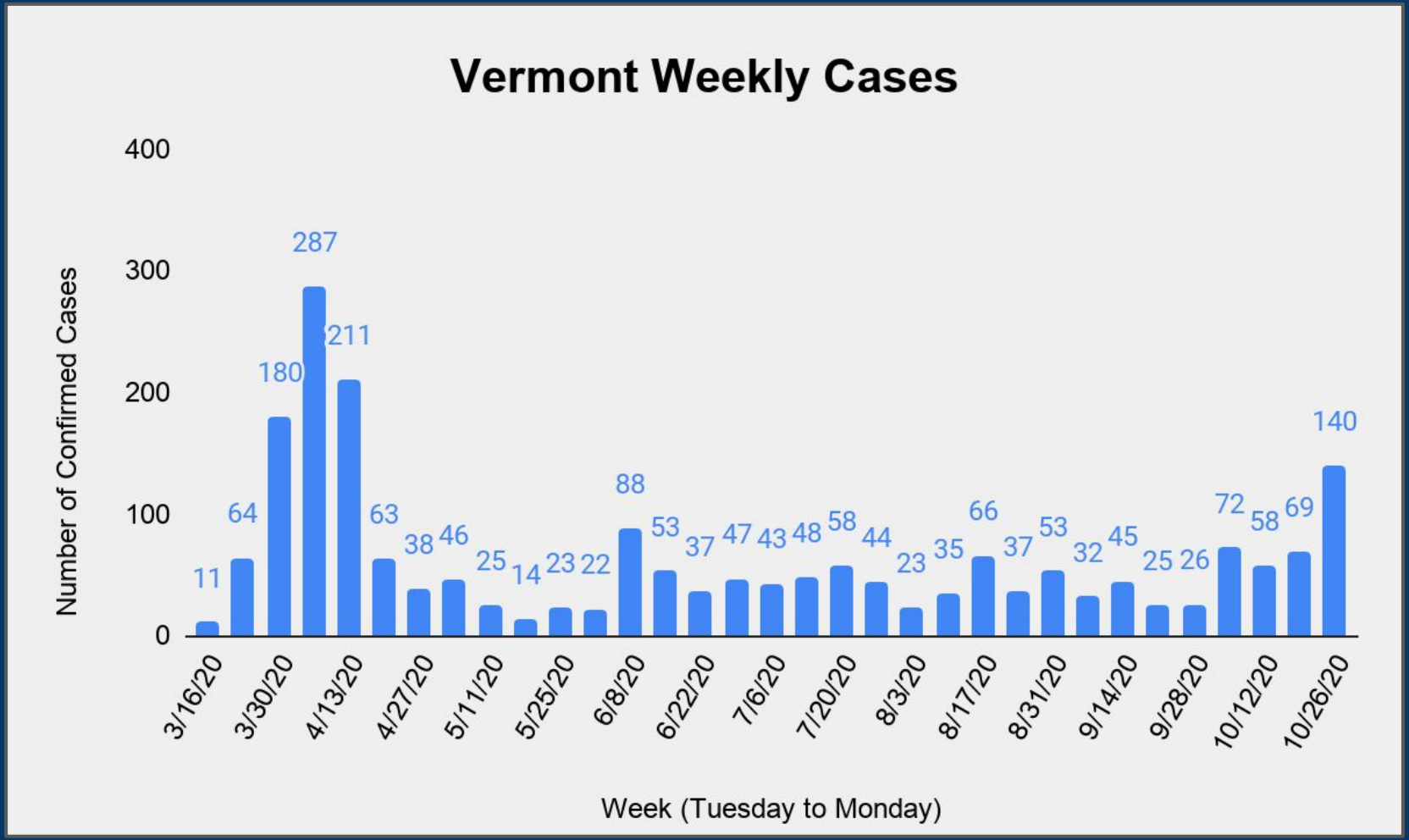

Map: Vermont DFR COVID Modeling Team • Source: Vermont Dept. of Health • Created with Datawrapper

## Vermont Weekly Cases by County (per 100,000)

Results Reported October 20 to 26



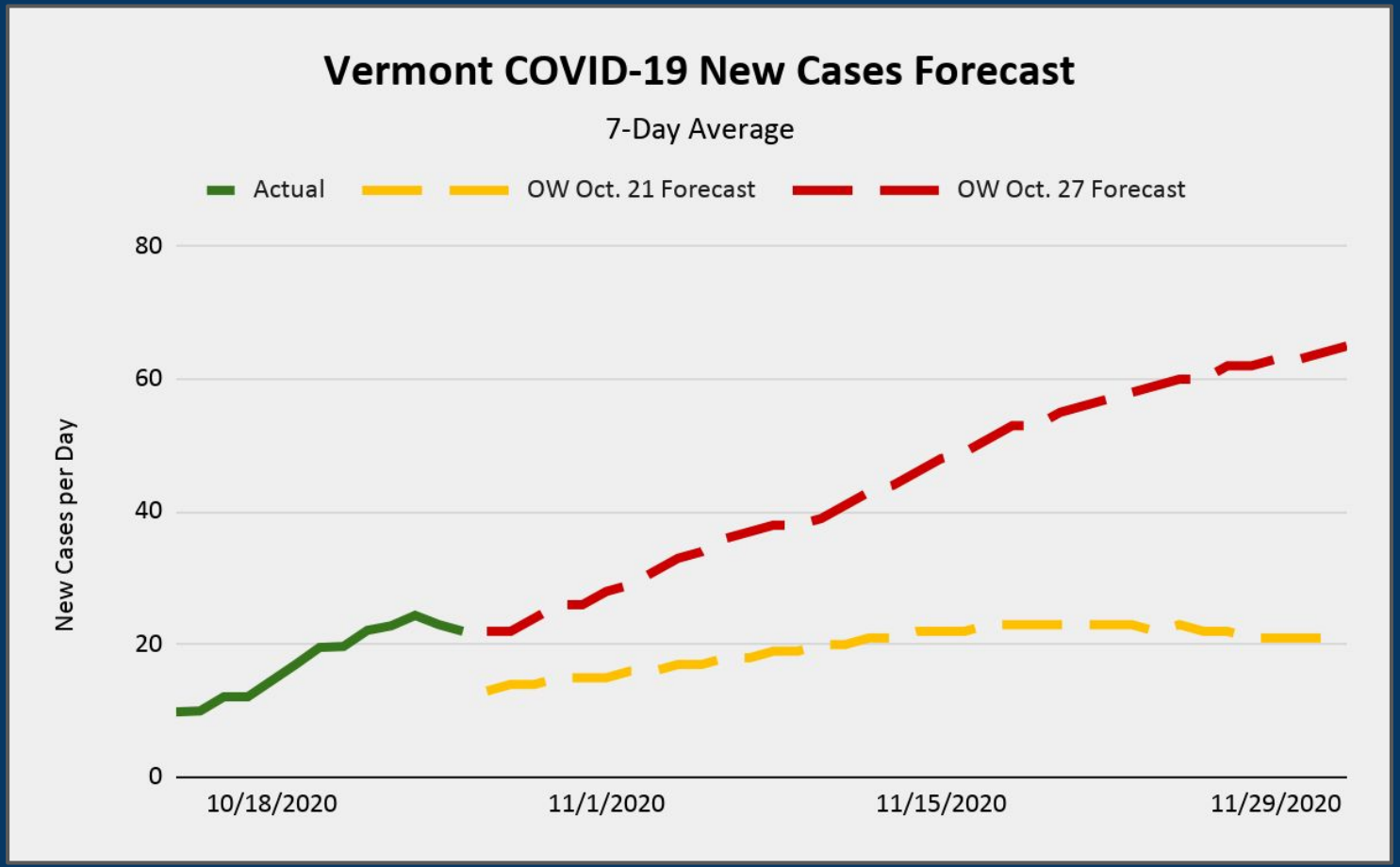

Map: Vermont DFR COVID Modeling Team • Source: Vermont Dept. of Health • Created with Datawrapper






Sources: Vermont Department of Health (week calculated as Tuesday to Monday)

# Vermont Forecast October 27 to December 2




Source: Oliver Wyman Forecast Model - October 27, 2020

# Concern About Small Gatherings

**New Hampshire**
*"State health officials warn about COVID-19 transmissions at small social gatherings"*
WMUR9 - October 25th

**Maine**
*"What we've seen in Maine just in the last 48 hours is that a large number of the new cases that we're seeing were folks who got it while they were indoors, in households"*
Maine Public Radio - October 26th

**Ohio**
*"As coronavirus cases continue to spike in Ohio, the state often attributes the spread to small gatherings or events that people have with family or friends when they 'let their guard down.' "*
Cleveland.com - October 22nd

**Rhode Island**
*"Small Social Gatherings Blamed for Coronavirus Spike in RI"*
NECN - October 14th

**Pennsylvania & Delaware**
*"Avoid small gatherings for the holidays to stop spread of COVID-19"*
The Times - October 26th

**New York**
*"[e]ven relatively small events, such as a Sweet 16 party held on Long Island last month, can spark an infectious outbreak."*
New York Times - October 18th

**Maryland, Virginia & DC**
*"D.C. region's coronavirus caseload hits two-month high; officials say small gatherings are fueling rise"*
The Washington Post - October 14th

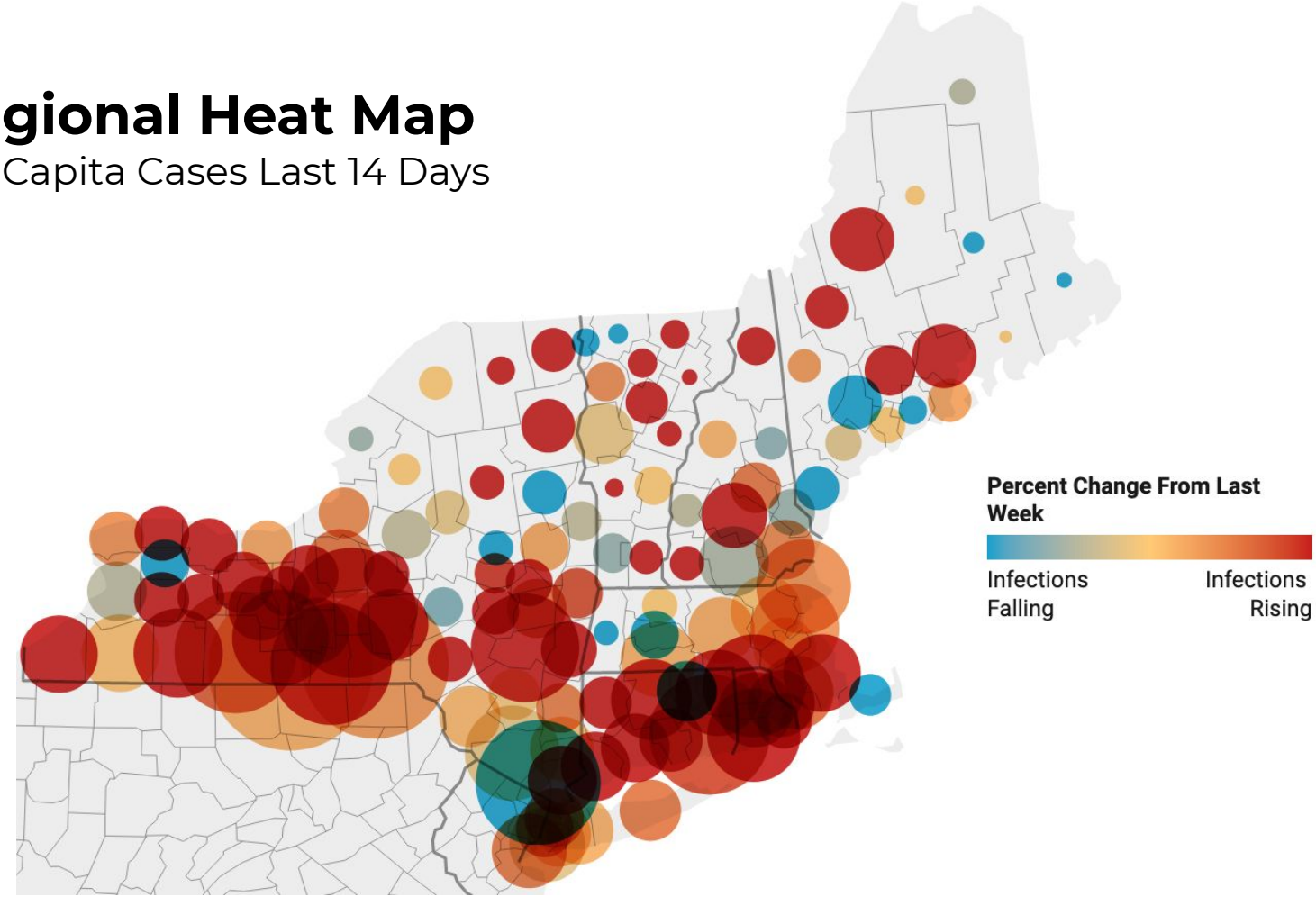
**Connecticut**
*"The recent uptick in cases in Connecticut and across the Northeast is worrisome, and the virus spread is coming from small, informal gatherings."*
CT Mirror October 8th

**New Jersey**
*"Small parties, family gatherings driving up COVID-19 case count"*
NJ Spotlight News - October 20th

**West Virginia**
*"Areas are seeing outbreaks where small gatherings of families or friends are occurring and no precautions are take."*
The Dominion Post - October 26th

# Regional Heat Map

Per Capita Cases Last 14 Days




Source: Raw data from Johns Hopkins University—October 27, 2020

# Lowest 7-Day COVID-19 Infectious Rates

| | State | Daily Infections per 100K | | Weekly Infections per 100K |
|---|---|---|---|---|
| 1 | Vermont | 1.6 | 3.1 | 17 |
| 2 | Maine | 2.2 | 3.1 | 18 |
| 3 | Hawaii | 5.9 | 6.5 | 42 |
| 4 | New Hampshire | 5.8 | 6.8 | 45 |
| 5 | District of Columbia | 7.6 | 8.4 | 54 |
| 6 | New York | 7.2 | 8.4 | 55 |
| 7 | Oregon | 8 | 9 | 56 |
| 8 | Washington | 8.2 | 9.1 | 59 |
| 9 | California | 8.1 | 11.1 | 68 |
| 10 | Maryland | 10.4 | 11.1 | 74 |
| 52 | National Average | 23.9 | 27.9 | 180 |

Sources: Johns Hopkins University (week calculated as Tuesday to Monday)

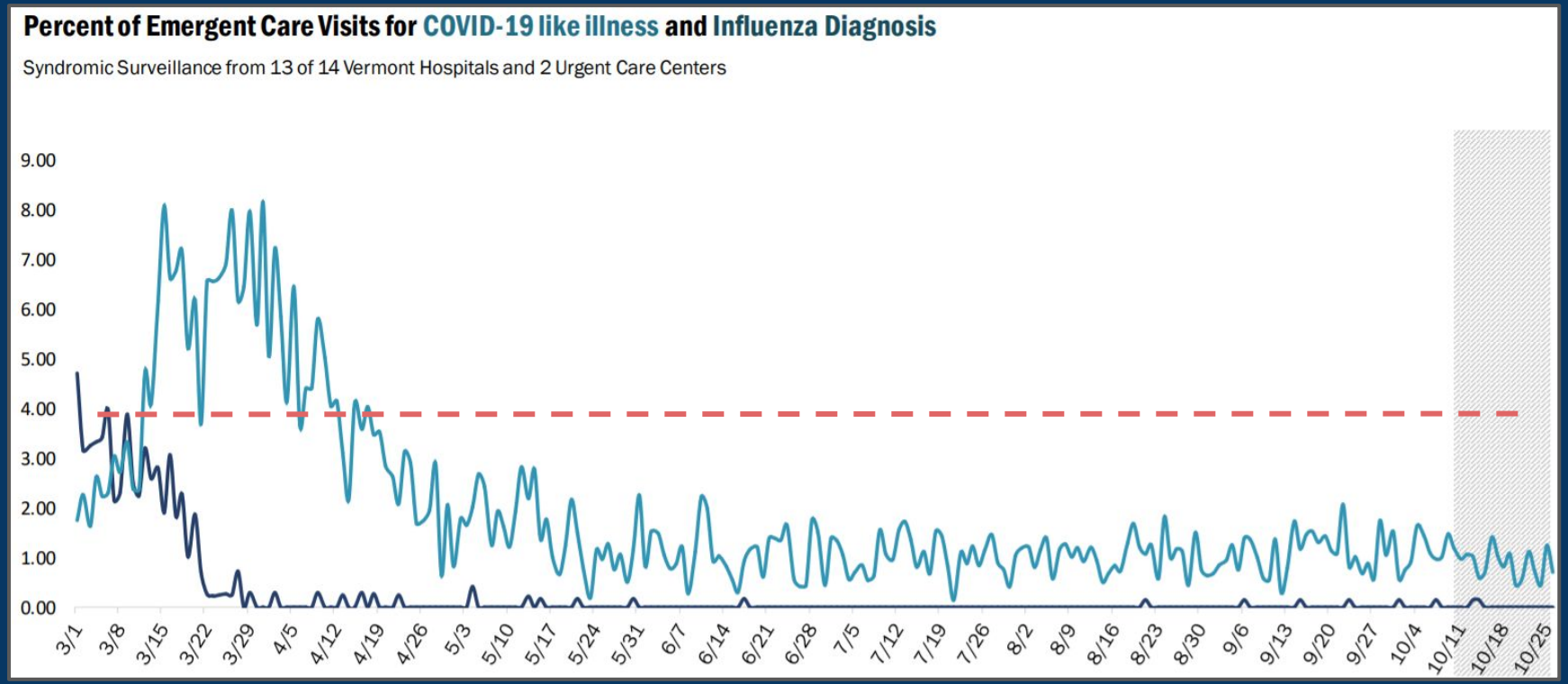
# RESTART VERMONT

## 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

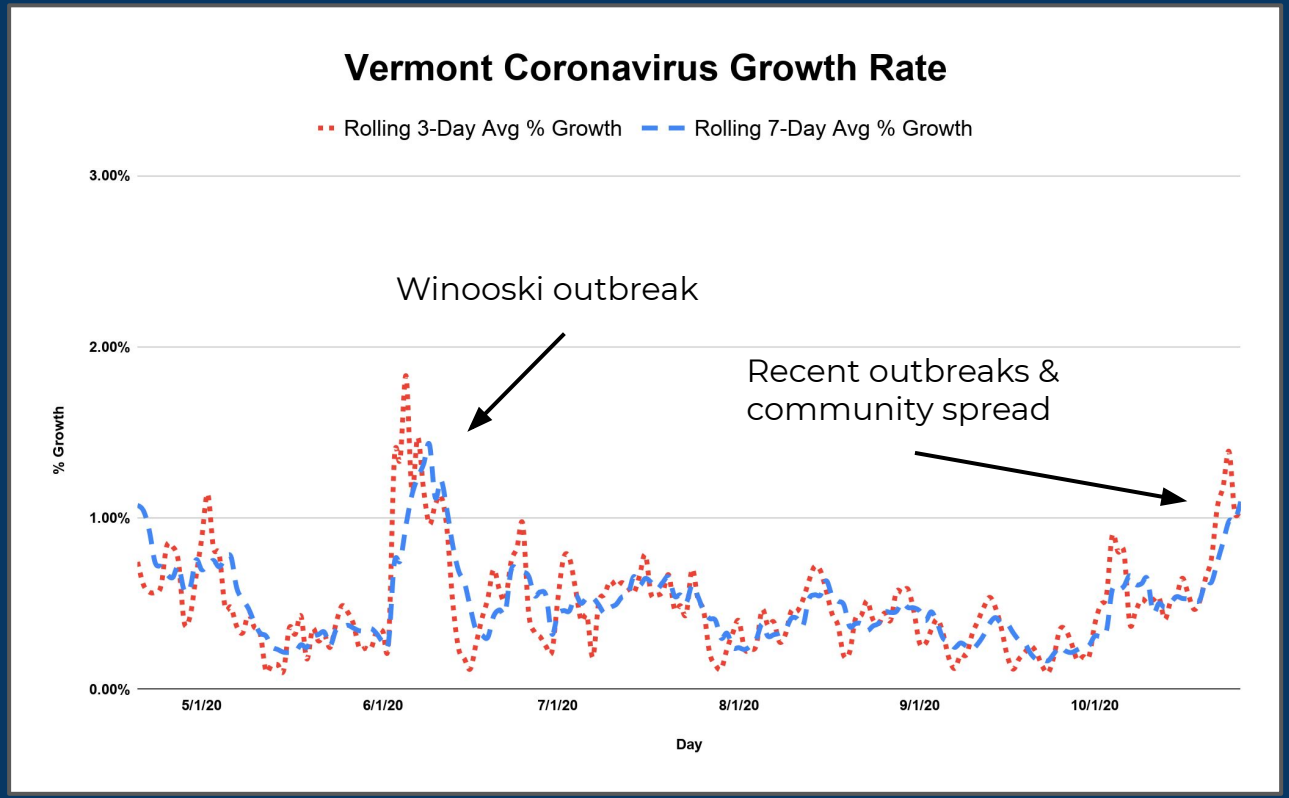
- **Summary:** Percentage of visits with COVID-19 like illness and Influenza diagnosis
- **Warning Flag:** Percentage of visits exceeding 4% for multiple consecutive days




Source: Vermont Department of Health - October 27, 2020

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

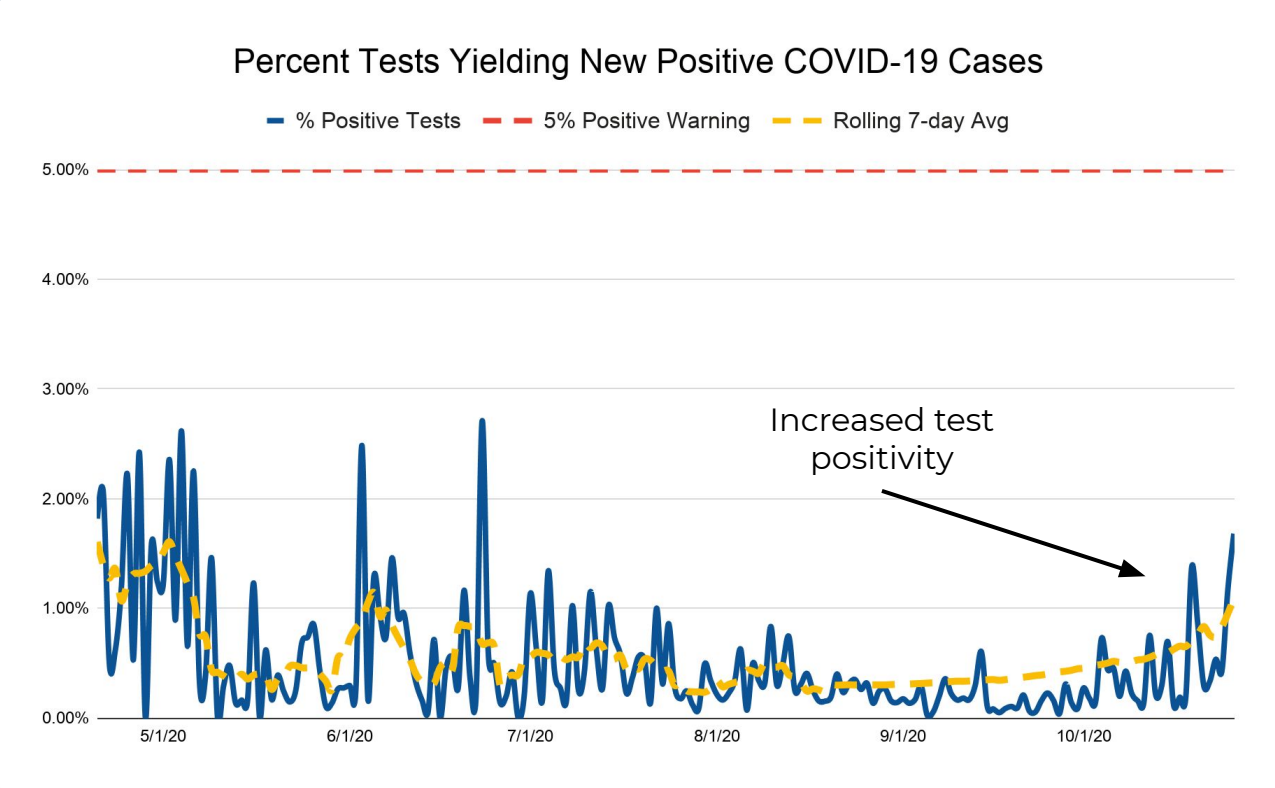
- **Summary:** Case growth measured by daily, 3-day, 7-day, and effective reproductive rate ($R_t$)
- **Warning Flags:** Sustained viral growth that would lead to <30% open ICU beds




Source: Vermont Department of Health - October 27, 2020

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

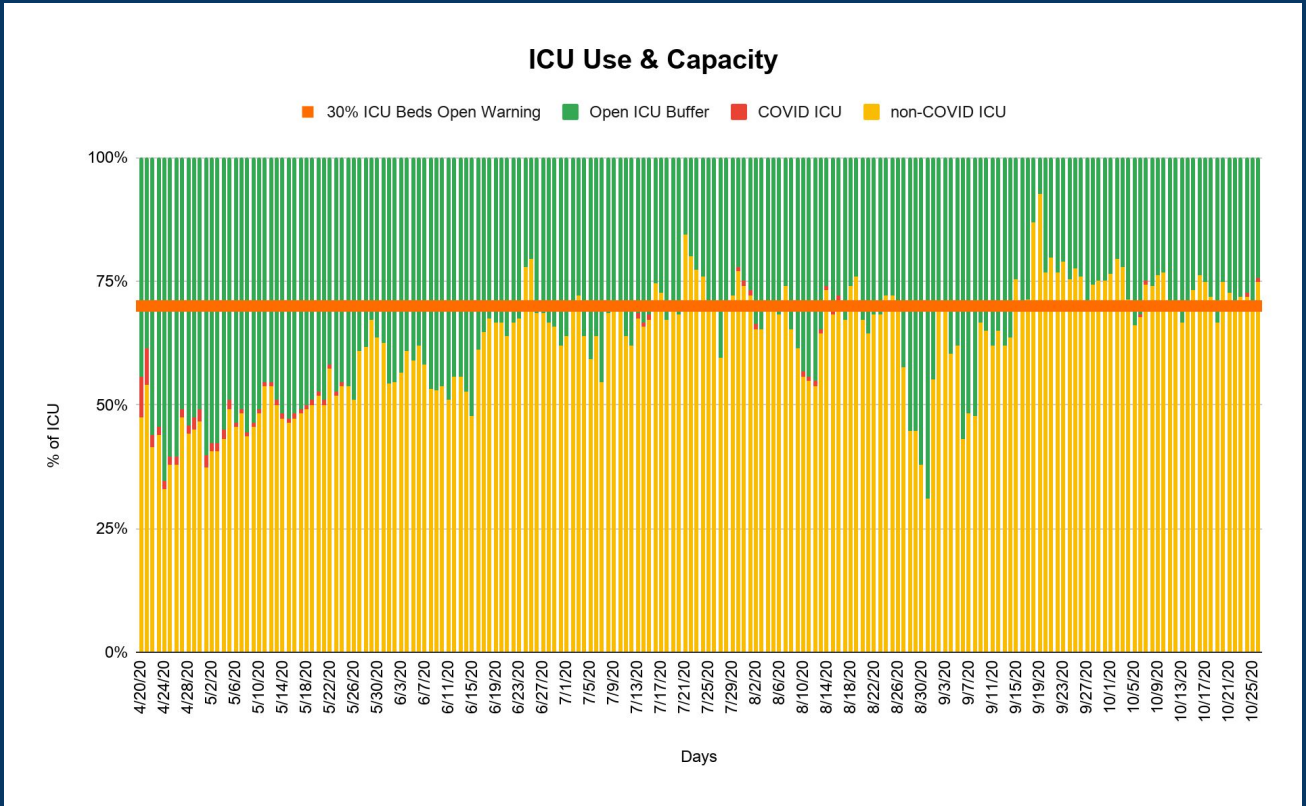
- **Summary:** Percent of tests resulting in a new positive case
- **Warning Flags:** New positives represent >5% of daily results




Source: Vermont Department of Health - October 27, 2020

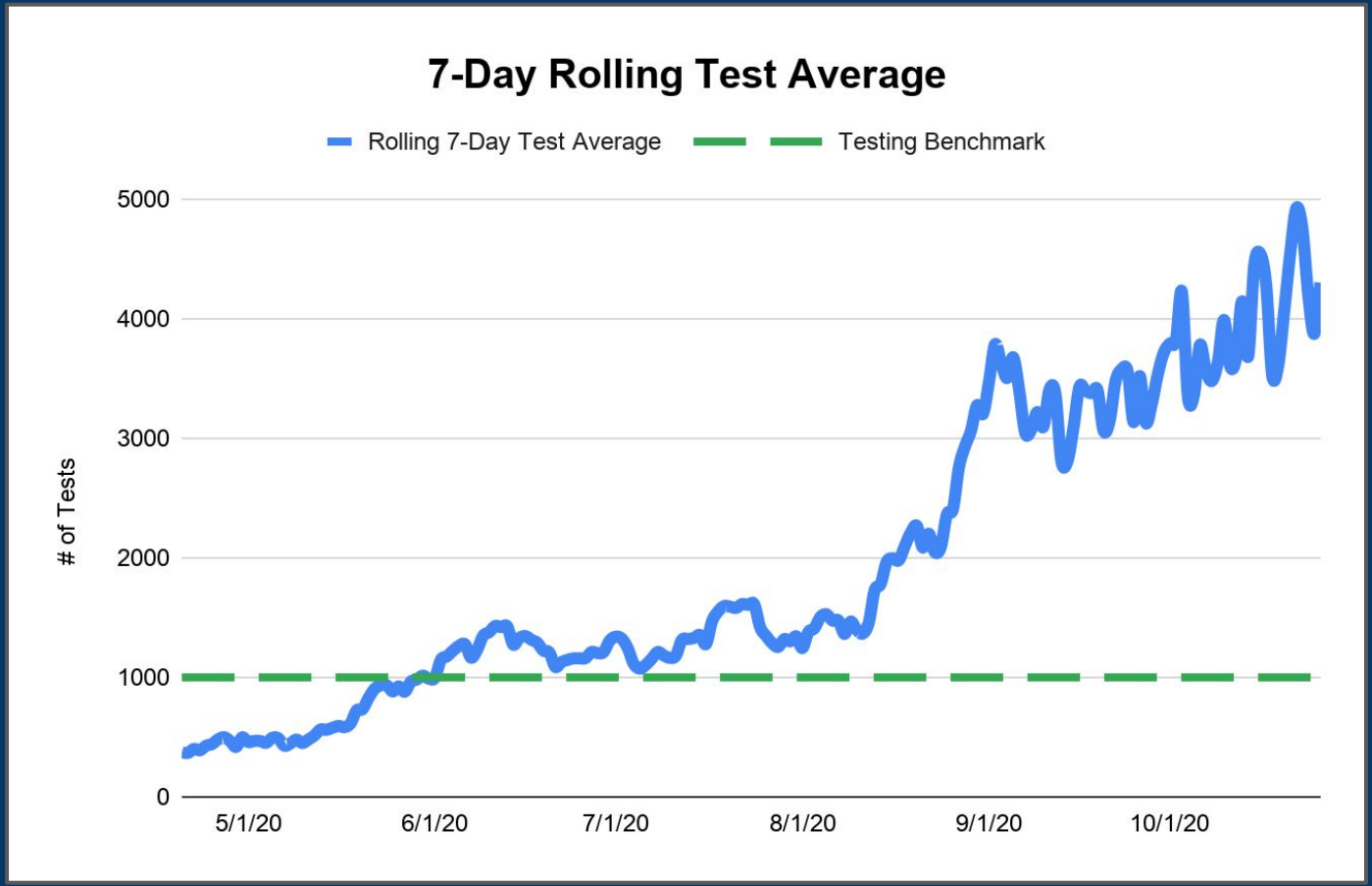
# **Data Point 4:** Hospital & Critical Care Beds

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




Source: Vermont Department of Health -October 20 2020

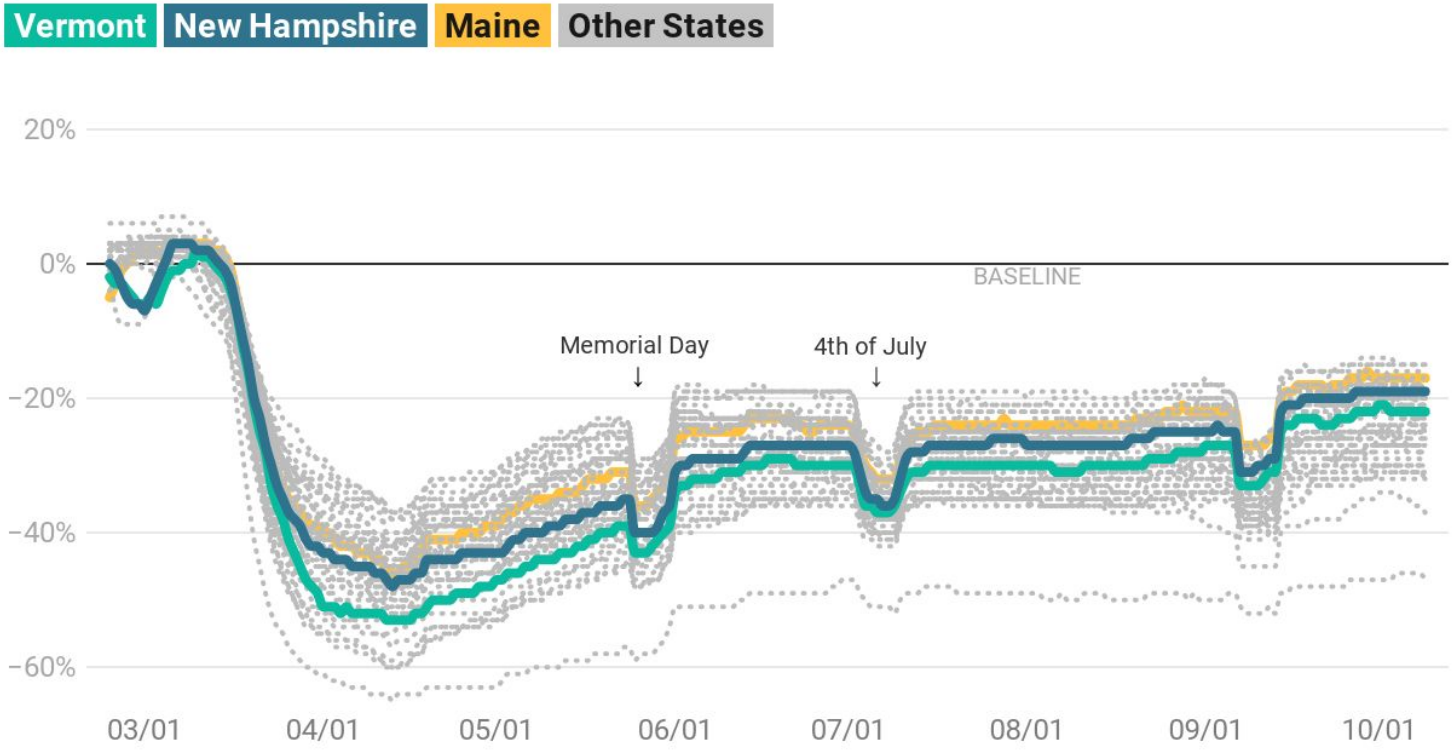
# Vermont Testing




Source: Vermont Dept. of Health - October 27, 2020; results reported to VDH daily

# Vermont Mobility Data

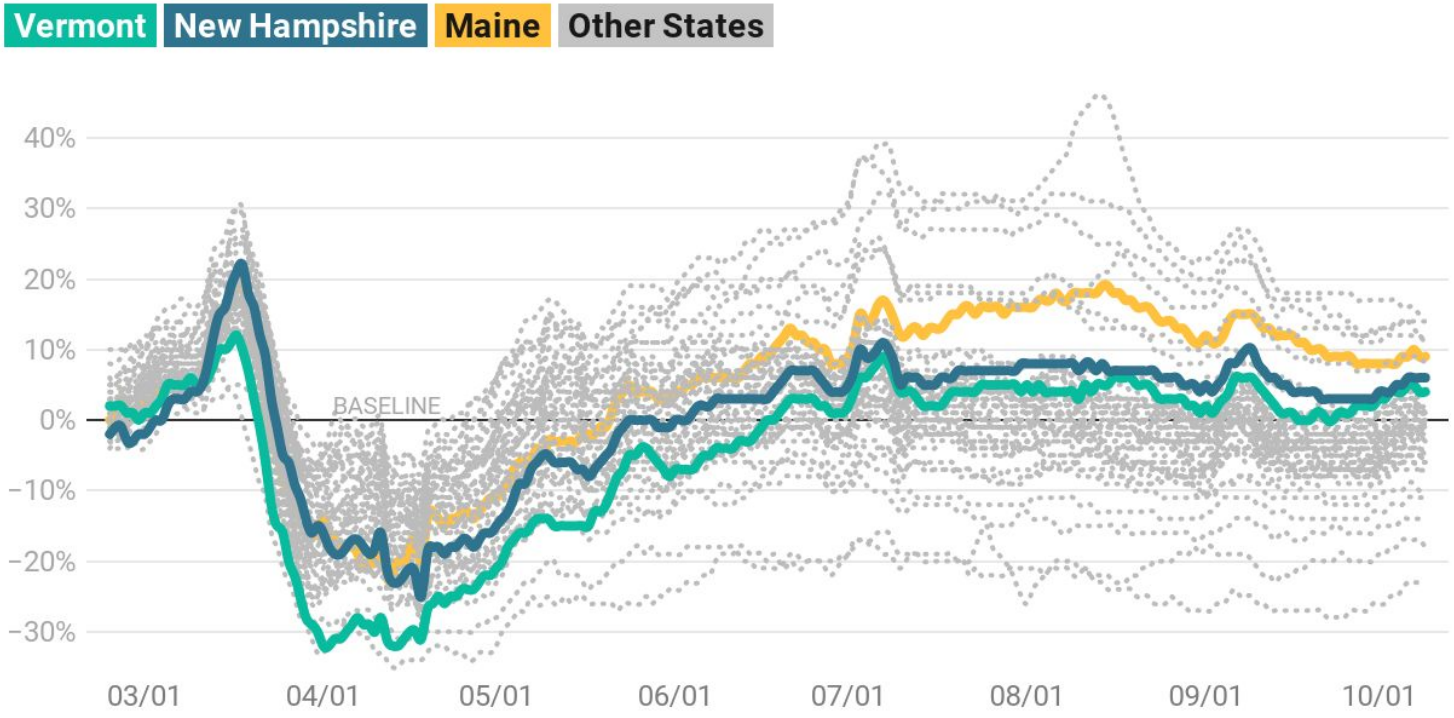
# Workplace




*Lines represent 7 day average. Baseline set Jan 3 – Feb 6, 2020.*

Source: Google • Created with Datawrapper

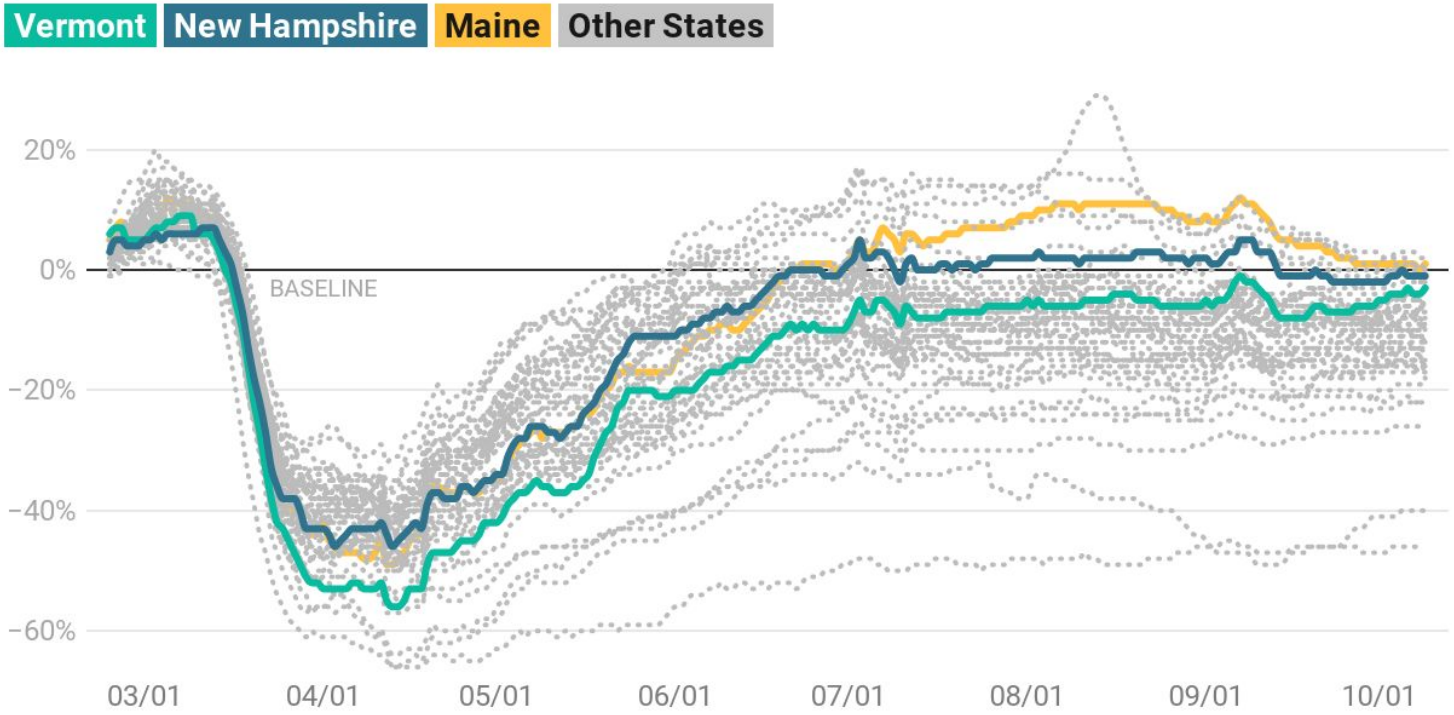
# Grocery & Pharmacy




*Lines represent % change from baseline in travel to places classified as grocery or pharmacy. 7 day average . Baseline set Jan 3 – Feb 6, 2020.*

Chart: VCGI • Source: Google • Created with Datawrapper

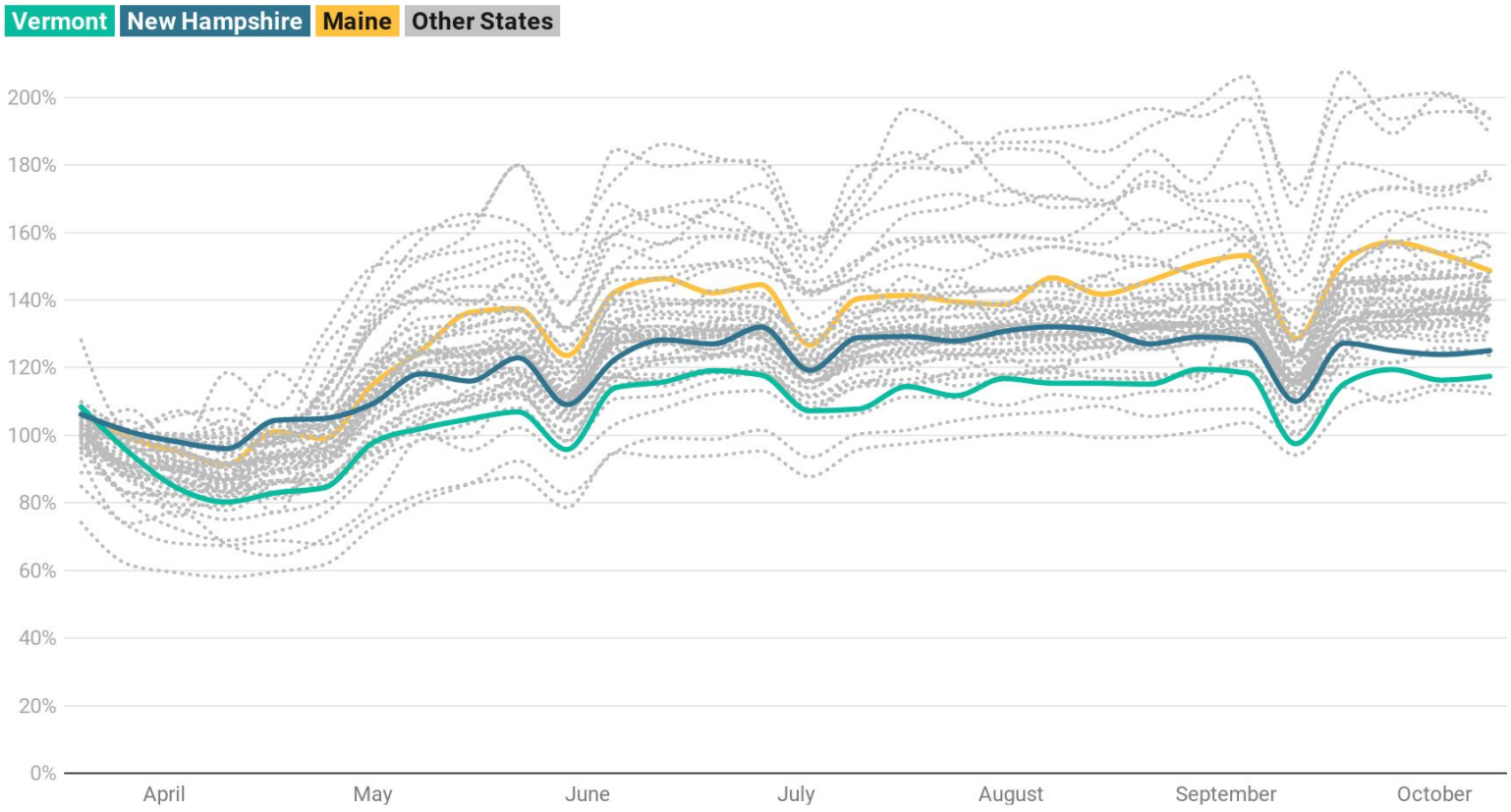
# Retail and Recreation




*Lines represent % change from baseline in travel to places classified as retail or recreation. 7 day average . Baseline set Jan 3 – Feb 6, 2020.*

Chart: VCGI • Source: Google • Created with Datawrapper

# Gas Station Fill-Ups

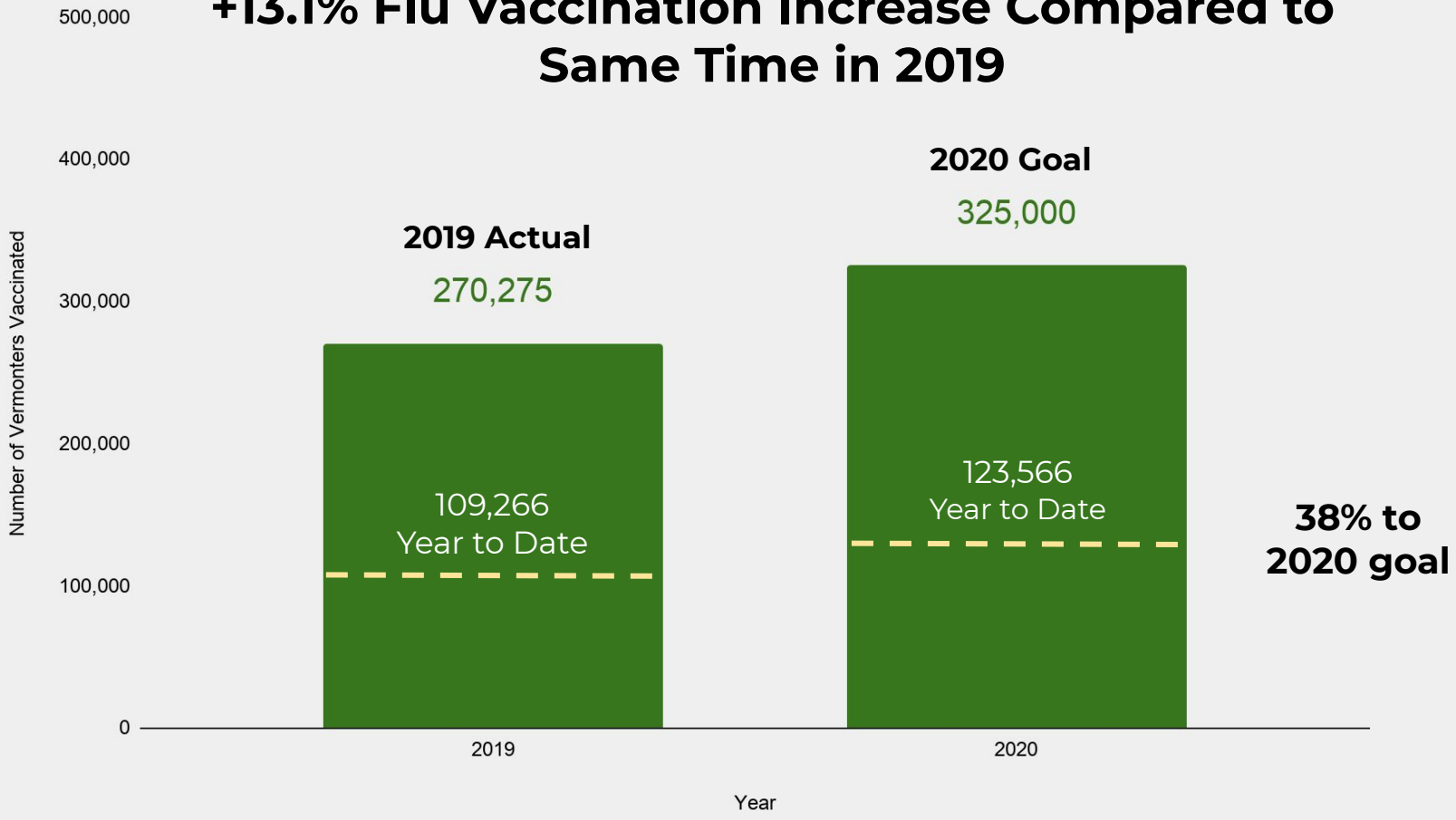



*Percentage of normal number of fuelling events at fuel stations in relative to the period immediately pre-Covid-19.*

Chart: VCGI • Source: GEOTAB • Created with Datawrapper

# Vermont Flu Vaccine Data

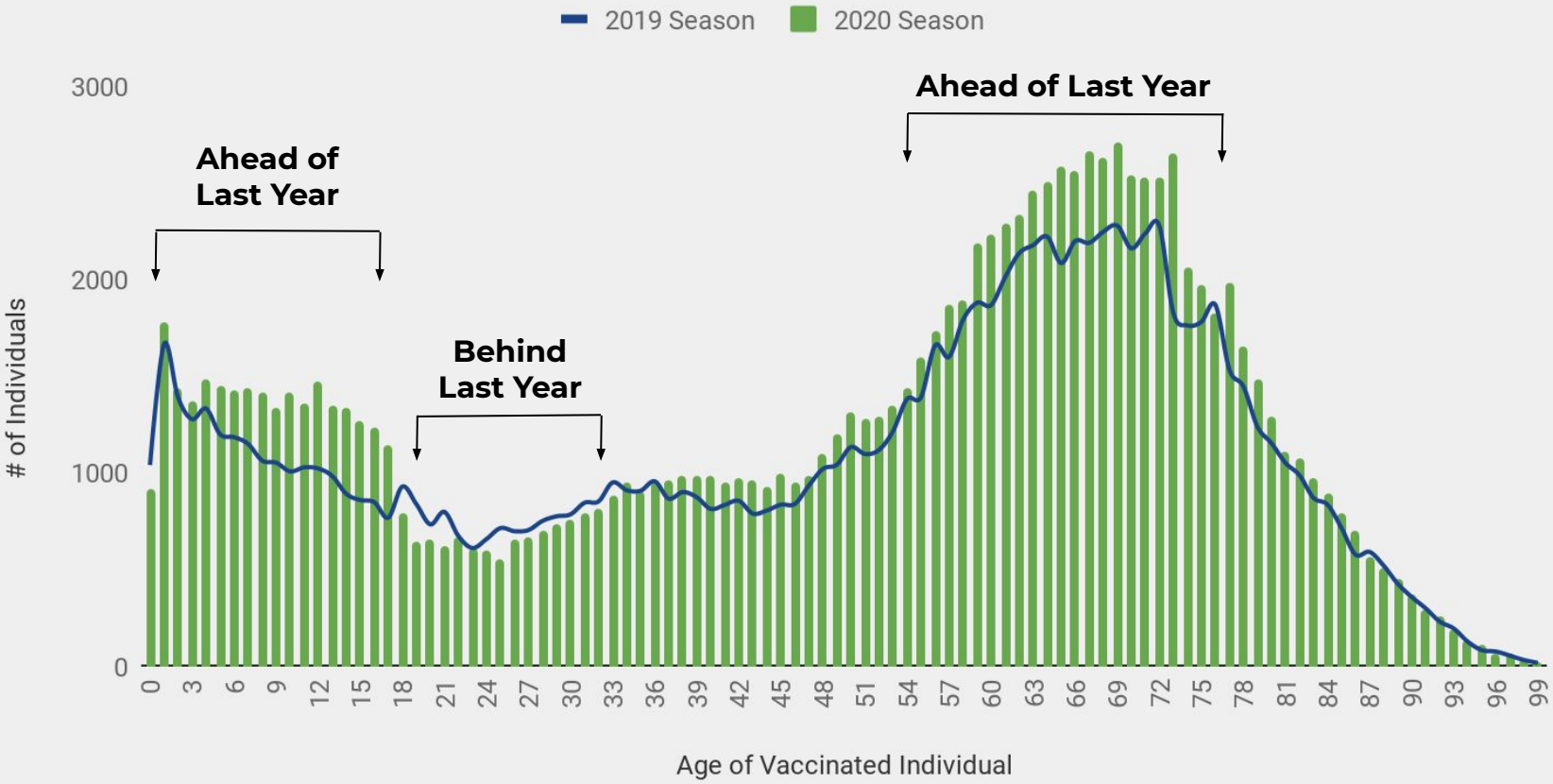
# +13.1% Flu Vaccination Increase Compared to Same Time in 2019




Source: Vermont Department of Health & ADS; Immunization Registry; Measured from July 1 to October 18, 2019 and 2020

# Vermont Influenza Vaccinations

Through October 18, 2019 & 2020

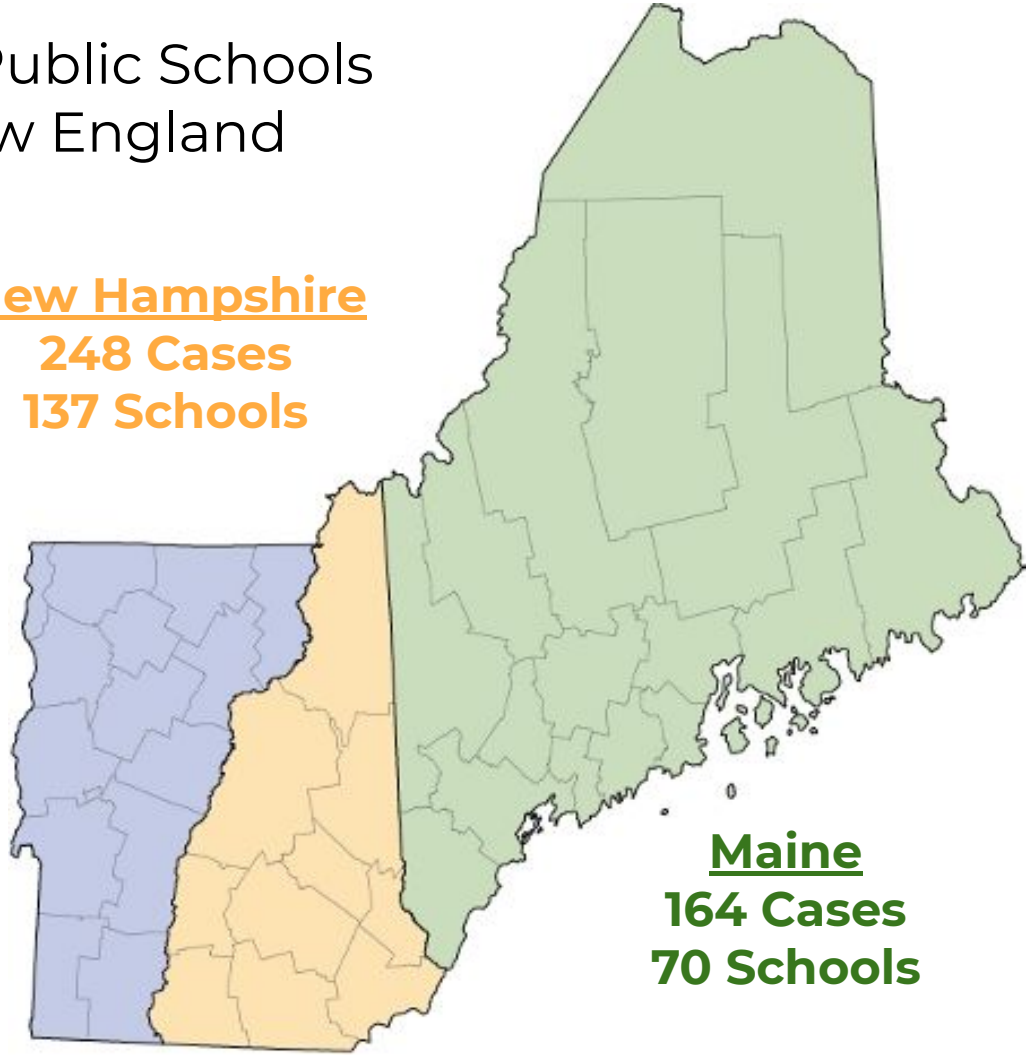


# K-12 & Higher Education Update

# Covid-19 Cases in K-12 Public Schools Across Northern New England

**New Hampshire**
**248 Cases**
**137 Schools**

**Vermont**
**25 Cases**
**19 Schools**

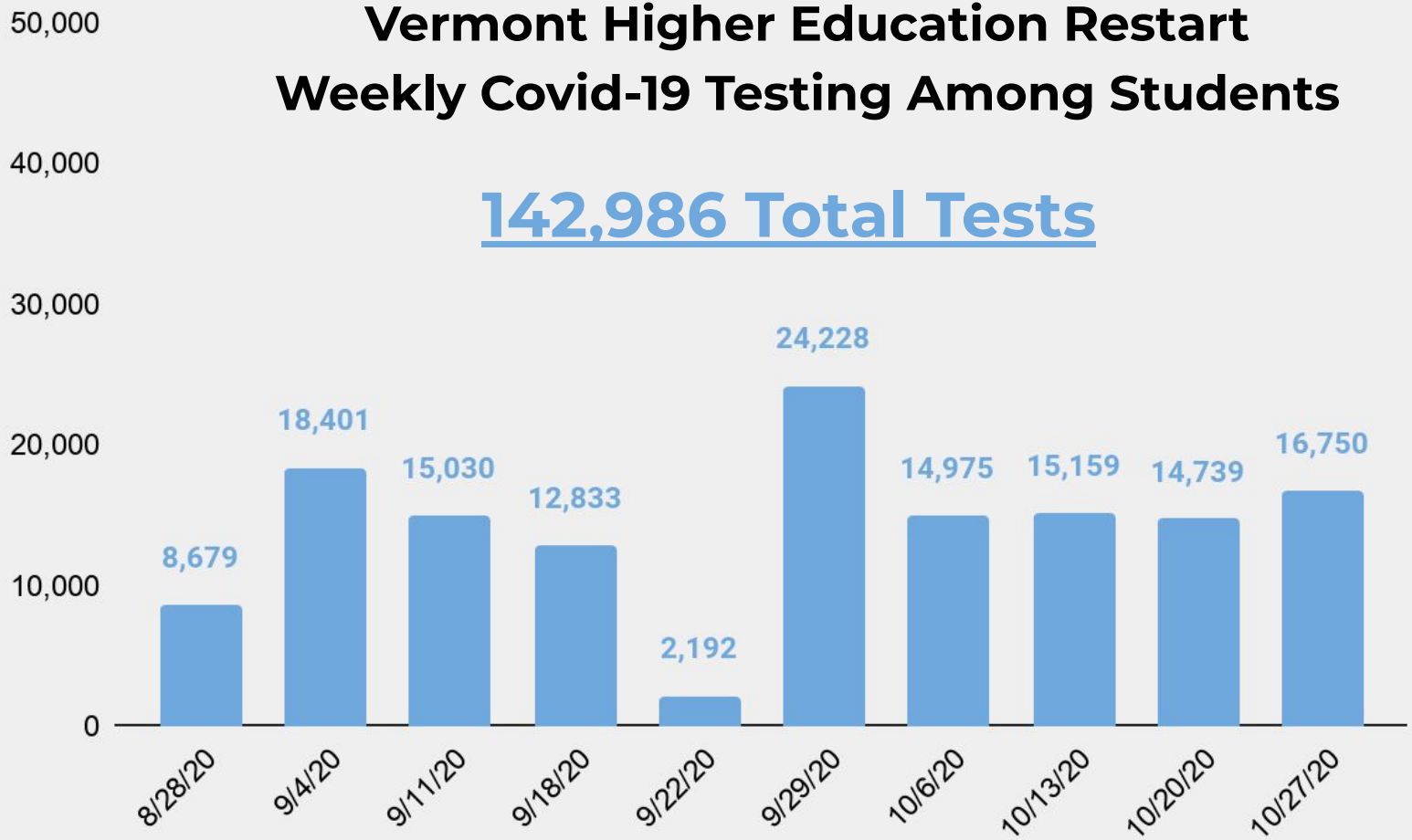


**Maine**
**164 Cases**
**70 Schools**

Source: VT, NH and ME K-12 Dashboards

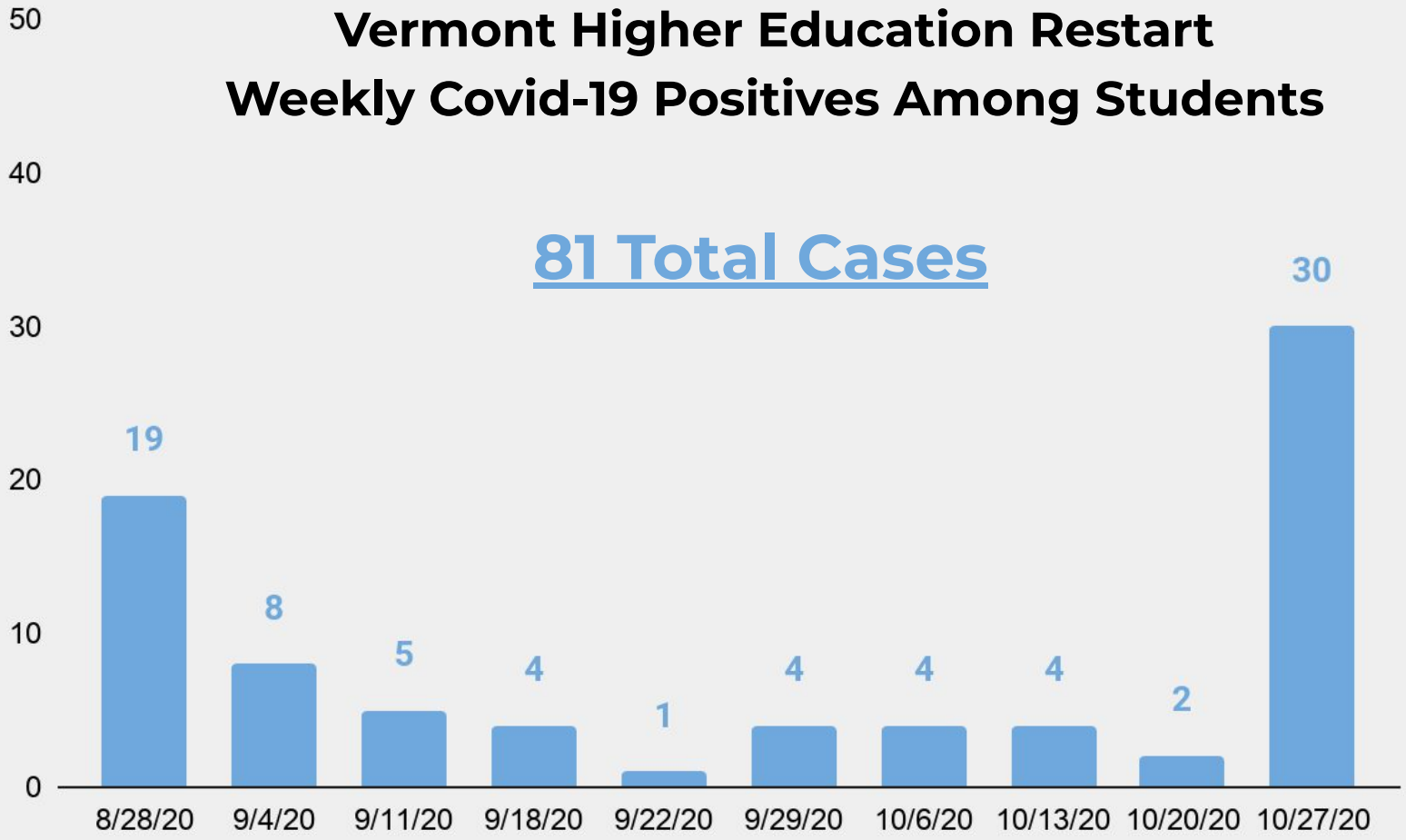
# Vermont Higher Education Restart
# Weekly Covid-19 Testing Among Students

## 142,986 Total Tests




Source: Vermont Colleges and Universities (presentation switched to Tuesday on September 22, 2020)

# Vermont Higher Education Restart
# Weekly Covid-19 Positives Among Students




Source: Vermont Colleges and Universities (presentation switched to Tuesday on September 22, 2020)

# Northern New England Higher Education Update

| | Total Tests | Positives | Positivity Rate |
|---|---|---|---|
| New Hampshire* | 300,599 | 344 | 0.11% |
| Maine* | 102,918 | 64 | 0.06% |
| Vermont | 142,986 | 81 | 0.06% |

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

# Vermont Higher Education Restart
# Institution Data as of October 27, 2020

| College / University | Total Tests | Student Positives | Faculty Positives | Dashboard / Public Information |
|---|---|---|---|---|
| Middlebury College | 9,639 | 2 | 2 | https://www.middlebury.edu/office/midd2021/covid-reporting-dashboard |
| University of Vermont | 91,576 | 27 | 0 | https://www.uvm.edu/returntocampus/uvm-weekly-testing-report |
| Norwich University | 11,441 | 6 | 1 | https://www.norwich.edu/news/psa |
| Northern Vermont University | 3,849 | 1 | 0 | https://www.northernvermont.edu/nvu-during-covid-19 |
| Castleton University | 1,241 | 2 | 0 | https://www.castleton.edu/covid-19-coronavirus-updates/covid-19-test-results/ |
| Vermont Technical College | 488 | 3 | 0 | https://www.vtc.edu/update-on-the-covid-19-coronavirus/ |
| Saint Michael's College | 5,654 | 30 | 0 | https://www.smcvt.edu/return-to-campus/ |
| Sterling College | 212 | 0 | 0 | https://sterlingcollege.edu/coronavirus-2019/ |
| Champlain College | 12,595 | 5 | 0 | https://view.champlain.edu/champlain-college-covid-19-testing-dashboard/ |
| Bennington College | 4,220 | 3 | 0 | https://www.bennington.edu/covid-19-updates-and-information |
| Vermont College of Fine Arts | 161 | 0 | 0 | Does not have a public dashboard at this time |
| Vermont Law School | 7 | 0 | 0 | Remote learning for Fall 2020 - Some students using campus facilitites |
| Landmark College | 1795 | 2 | 1 | https://www.landmark.edu/student-life/health-counseling-wellness/covid-19/covid-19-dashboard |
| Albany College of Pharmacy | 108 | 0 | 0 | https://www.acphs.edu/health-safety |
| Totals | 142,986 | 81 | 4 | |

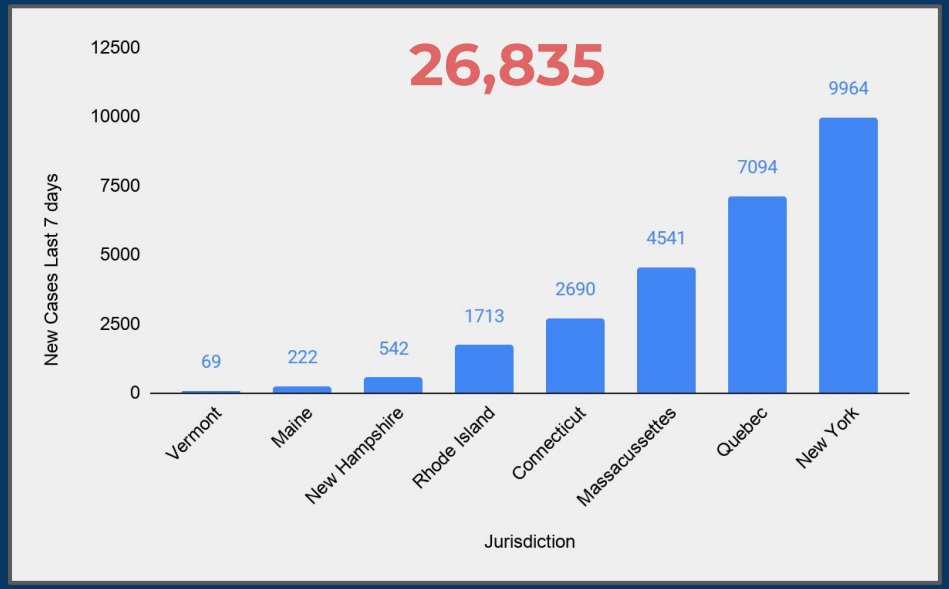
Note: Goddard College & Community College of Vermont are remote for Fall 2020

# Regional Data & Travel Map Update

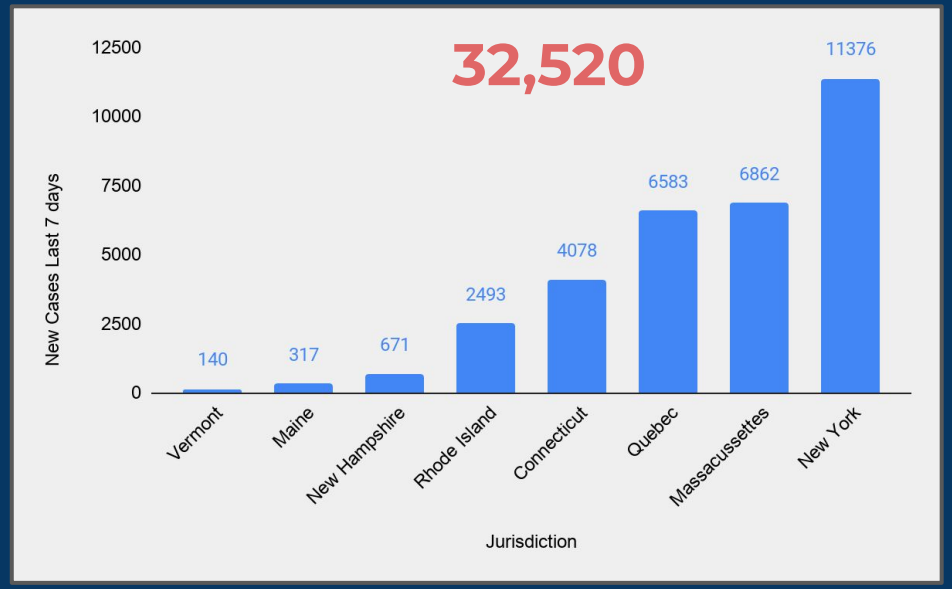
# Regional Monitoring

## 21.19% Increase in New Confirmed Cases

Positive Cases Oct. 13th to Oct. 19th

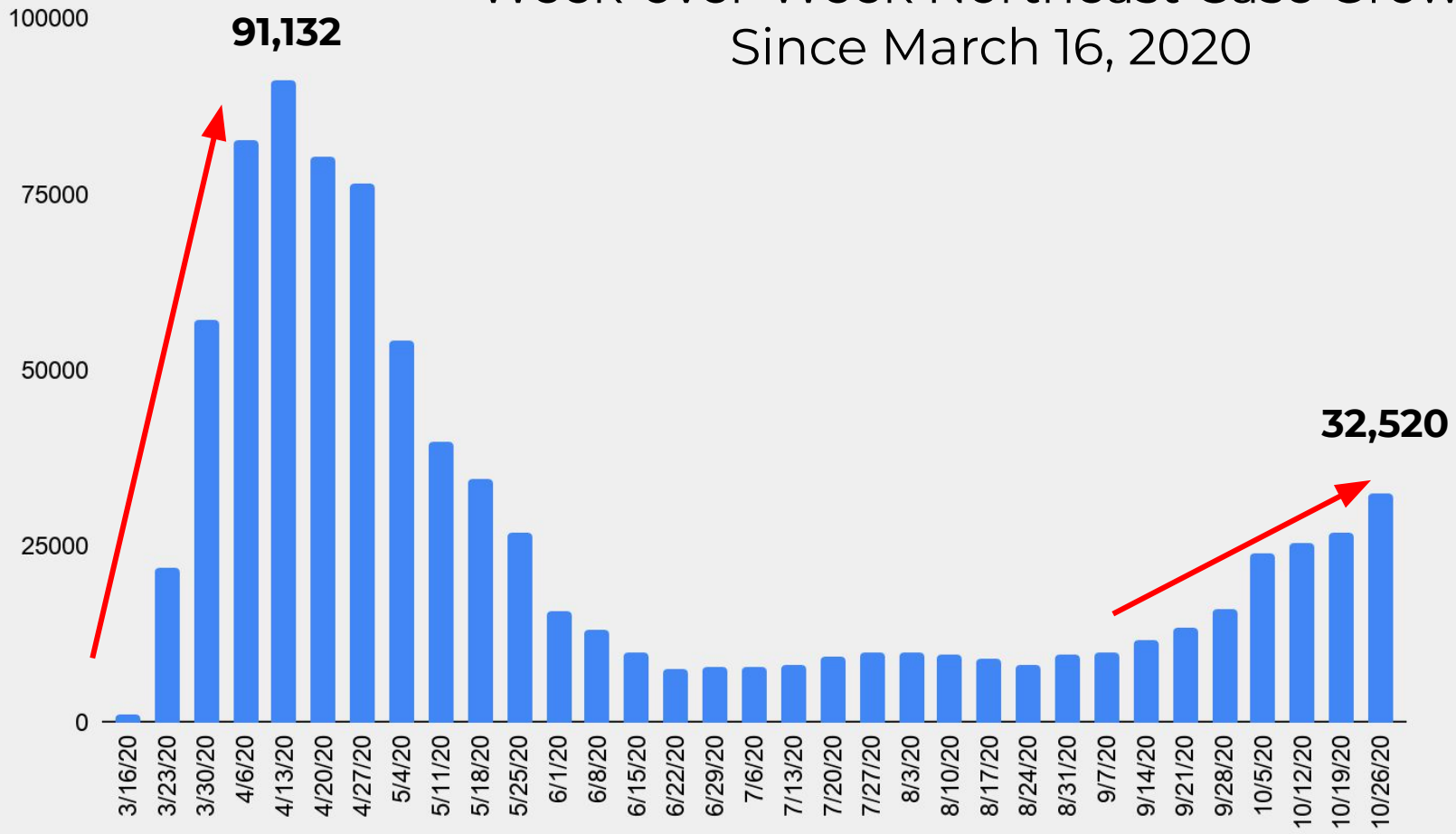



Positive Cases Oct. 20th to Oct. 26th

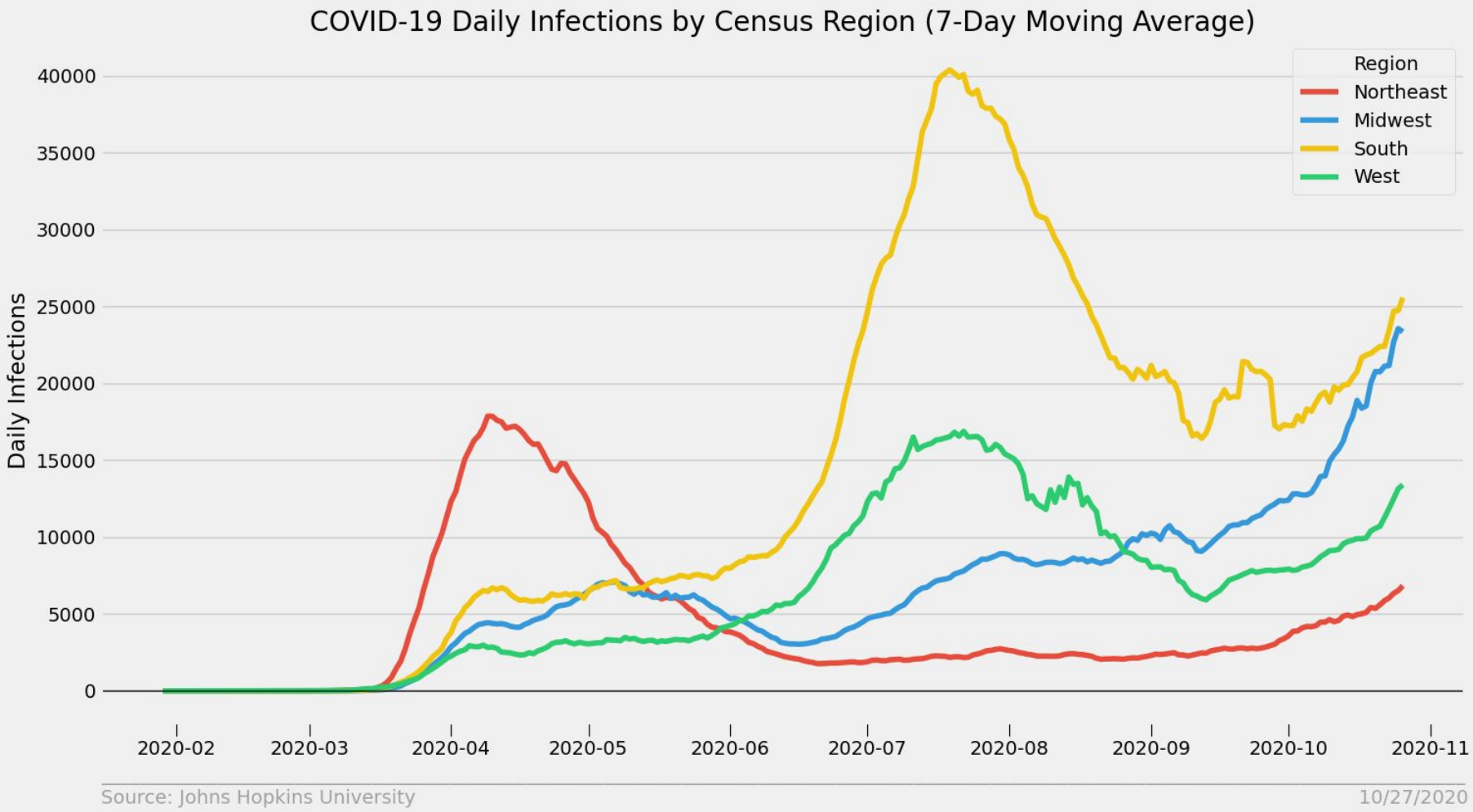


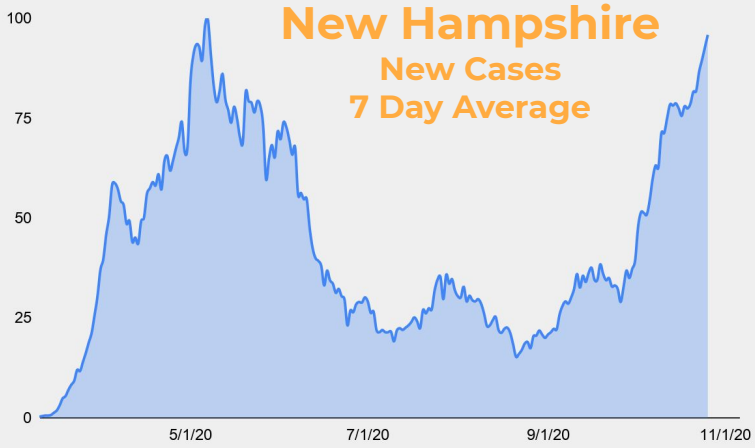

Sources: State Health Departments, New York Time Covid-19 Database & Government of Quebec

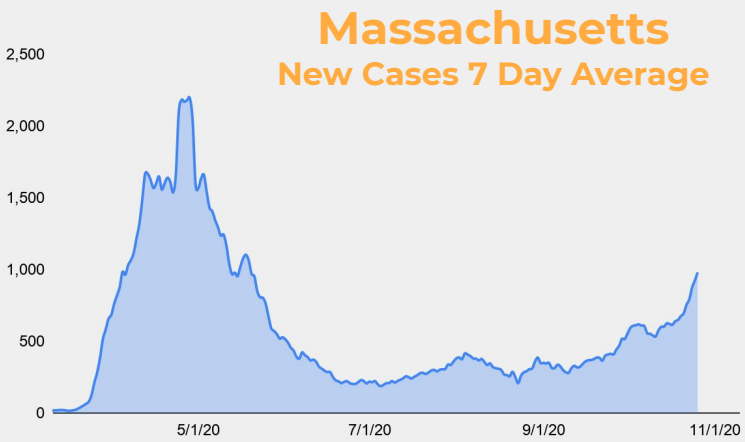
# Week-over-Week Northeast Case Growth Since March 16, 2020

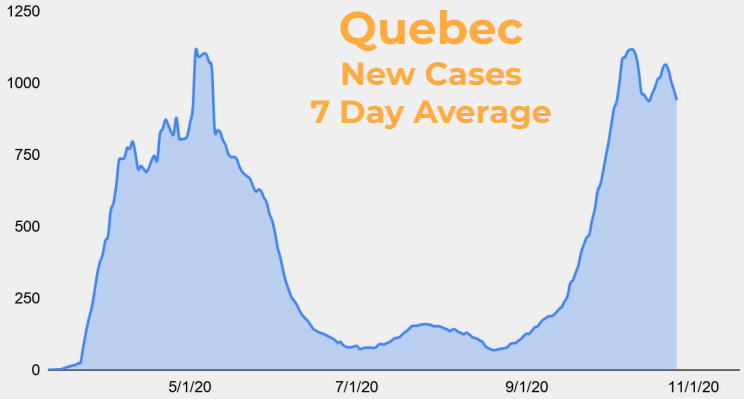


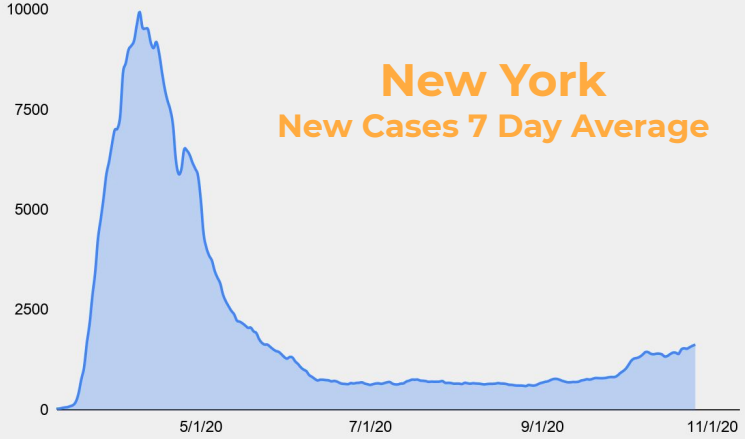

Sources: State Health Departments, New York Times Covid-19 Database & Government of Quebec


COVID-19 Daily Infections by Census Region (7-Day Moving Average)
Daily Infections
40000
35000
30000
25000
20000
15000
10000
5000
0
2020-02
2020-03
2020-04
2020-05
2020-06
2020-07
2020-08
2020-09
2020-10
2020-11
Region
Northeast
Midwest
South
West
Source: Johns Hopkins University
10/27/2020

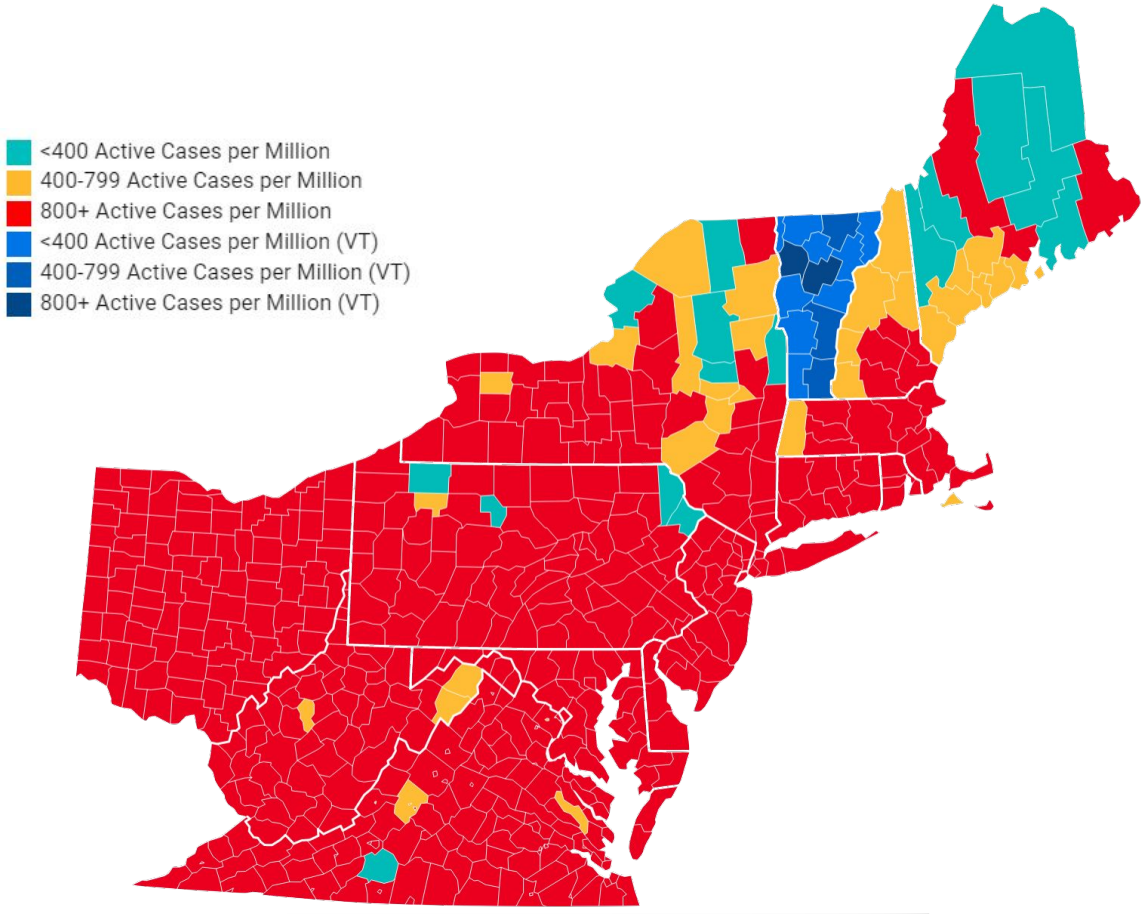

New Hampshire
New Cases
7 Day Average
100
75
50
25
0
5/1/20
7/1/20
9/1/20
11/1/20


Massachusetts
New Cases 7 Day Average
2,500
2,000
1,500
1,000
500
0
5/1/20
7/1/20
9/1/20
11/1/20


Quebec
New Cases
7 Day Average
1250
1000
750
500
250
0
5/1/20
7/1/20
9/1/20
11/1/20


New York
New Cases 7 Day Average
10000
7500
5000
2500
0
5/1/20
7/1/20
9/1/20
11/1/20

# Updated Travel Map

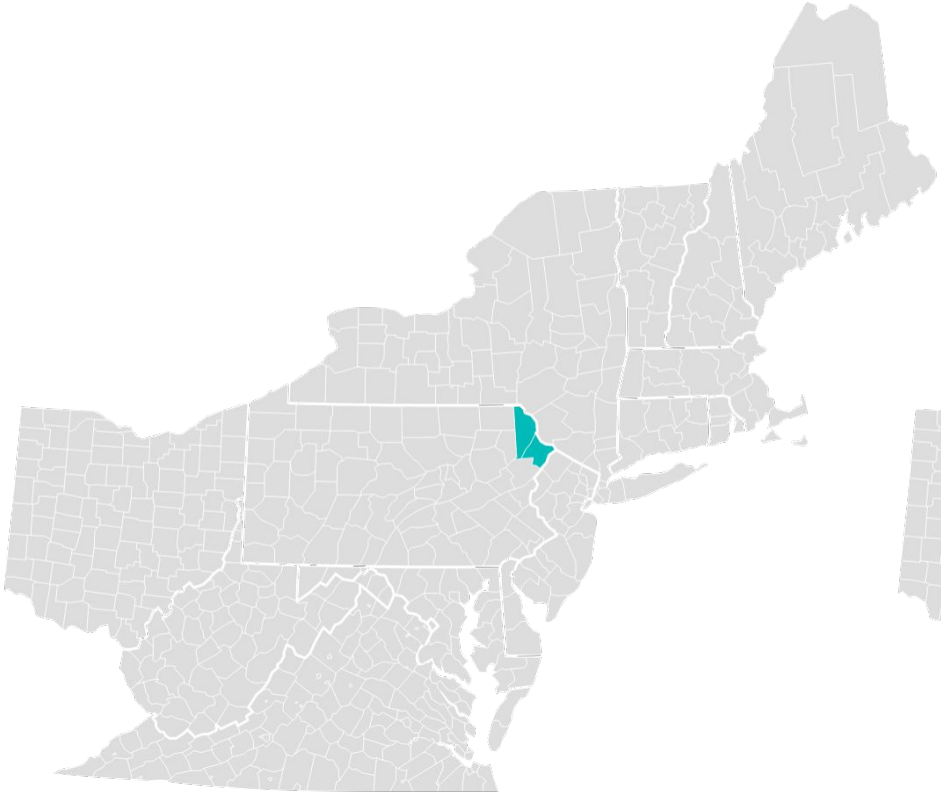



2 Counties Improved
**+107,170 population**

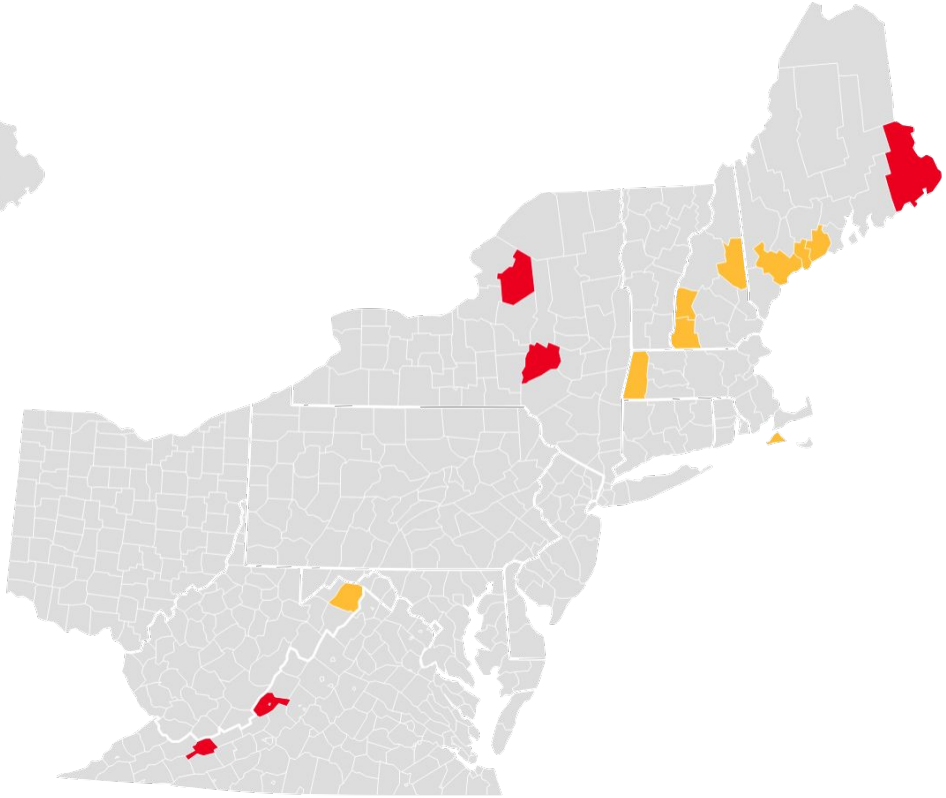
15 Counties Worsened
**-842,931 population**

**880,000** eligible to visit without quarantine

**Improving:** Moving from Yellow or Red to Green



**Worsening:** Moving to Yellow or Red



# Population From "Green" Counties

*Office of Governor Philip B. Scott*

# COVID-19

# VERMONT'S RESPONSE

*Tuesday Oct. 27, 2020*

@GovPhilScott