Office of Governor Philip B. Scott

COVID-19

VERMONT'S RESPONSE

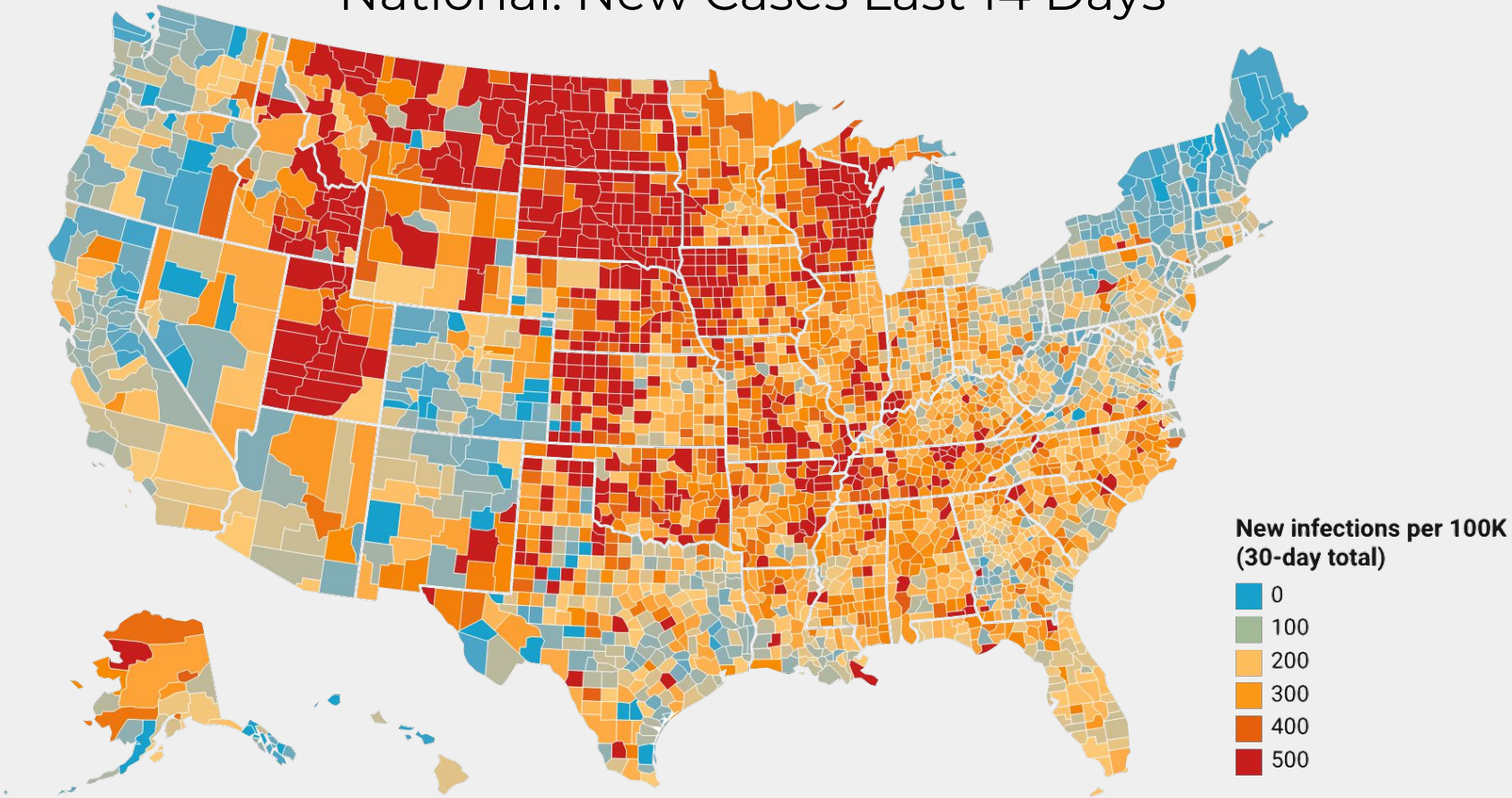
Tuesday Oct. 13, 2020

@GovPhilScott

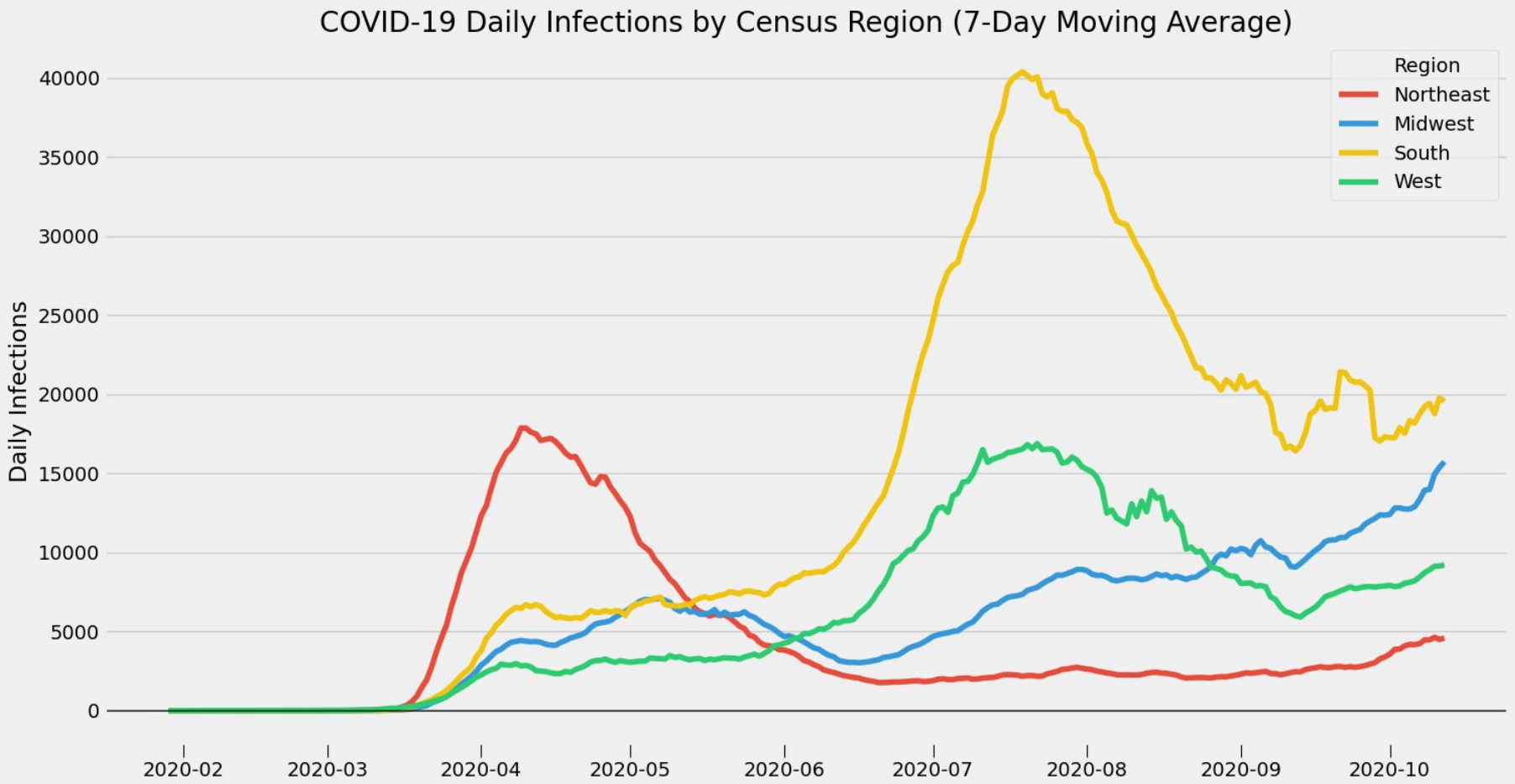
COVID-19 Modeling
October 13, 2020

Presentation available at:
dfr.vermont.gov

National: New Cases Last 14 Days



Source: Raw data from Johns Hopkins University—October 13, 2020



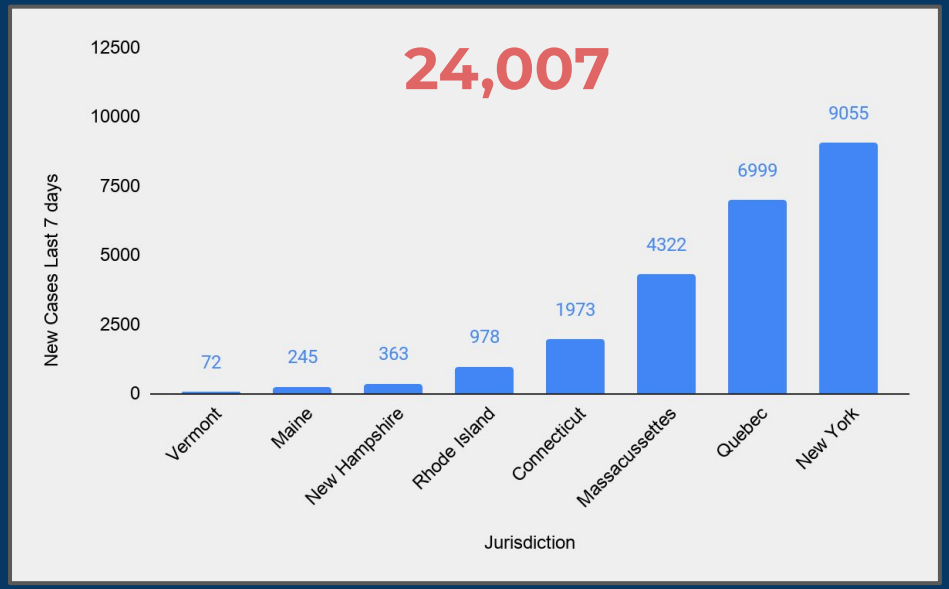
Source: Johns Hopkins University

10/13/2020

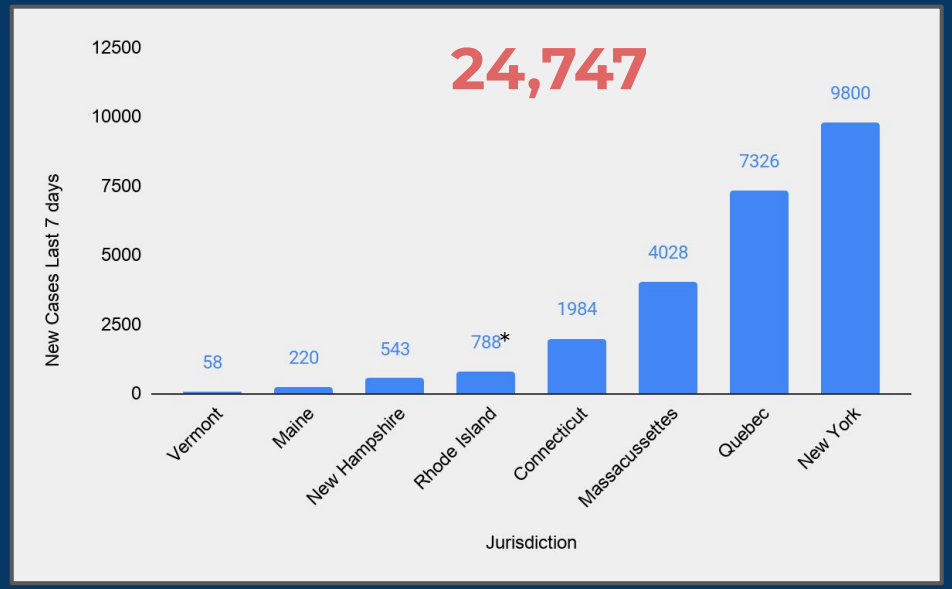
Regional Monitoring: New Cases Week Over Week

3.09%* Increase in New Confirmed Cases

Positive Cases Sept. 29th to Oct. 4th

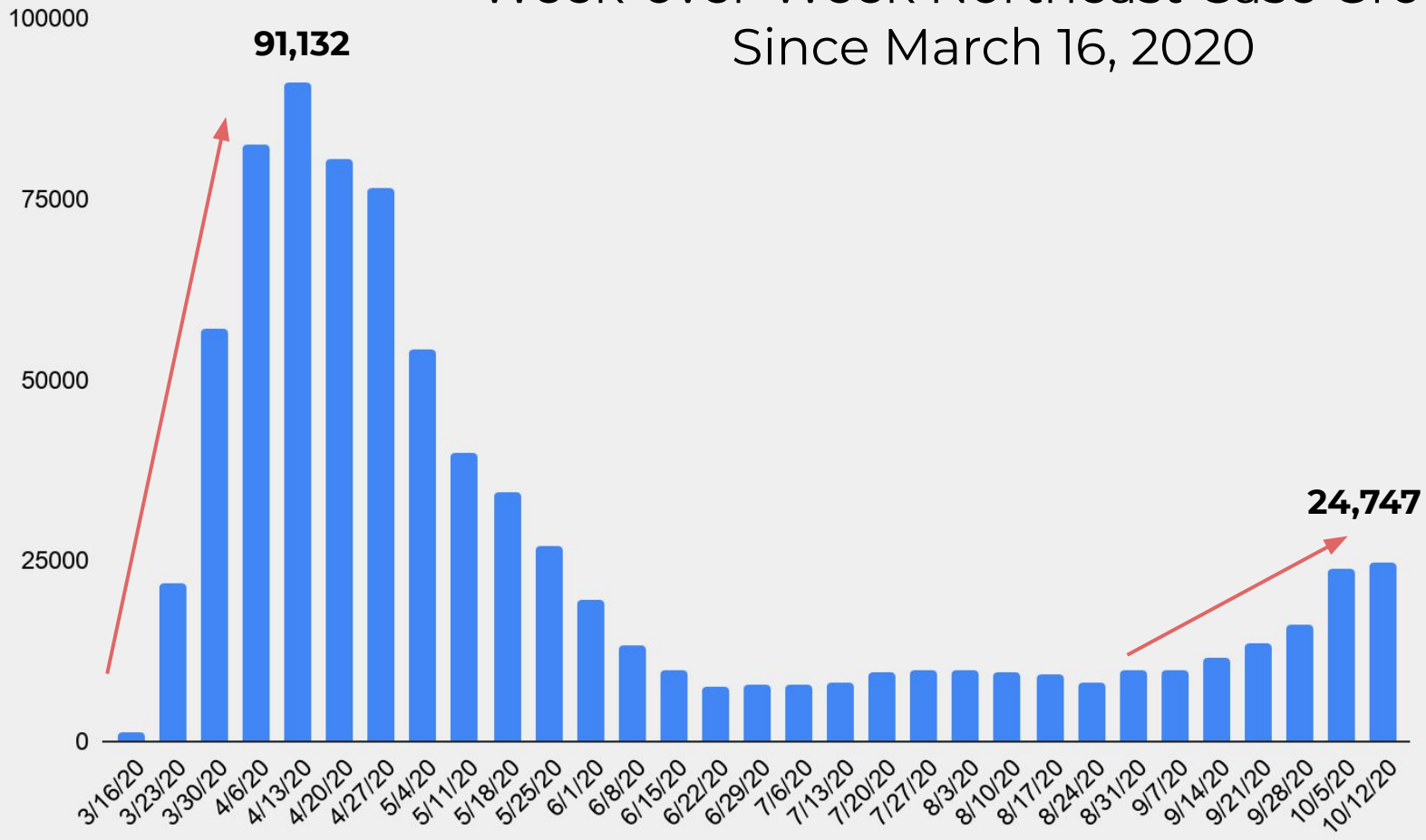


Positive Cases Oct. 5th to Oct. 12th



Sources: State Health Departments, New York Time Covid-19 Database & Government of Quebec
(*Note: Rhode Island has not updated its daily case counts since October 9th)

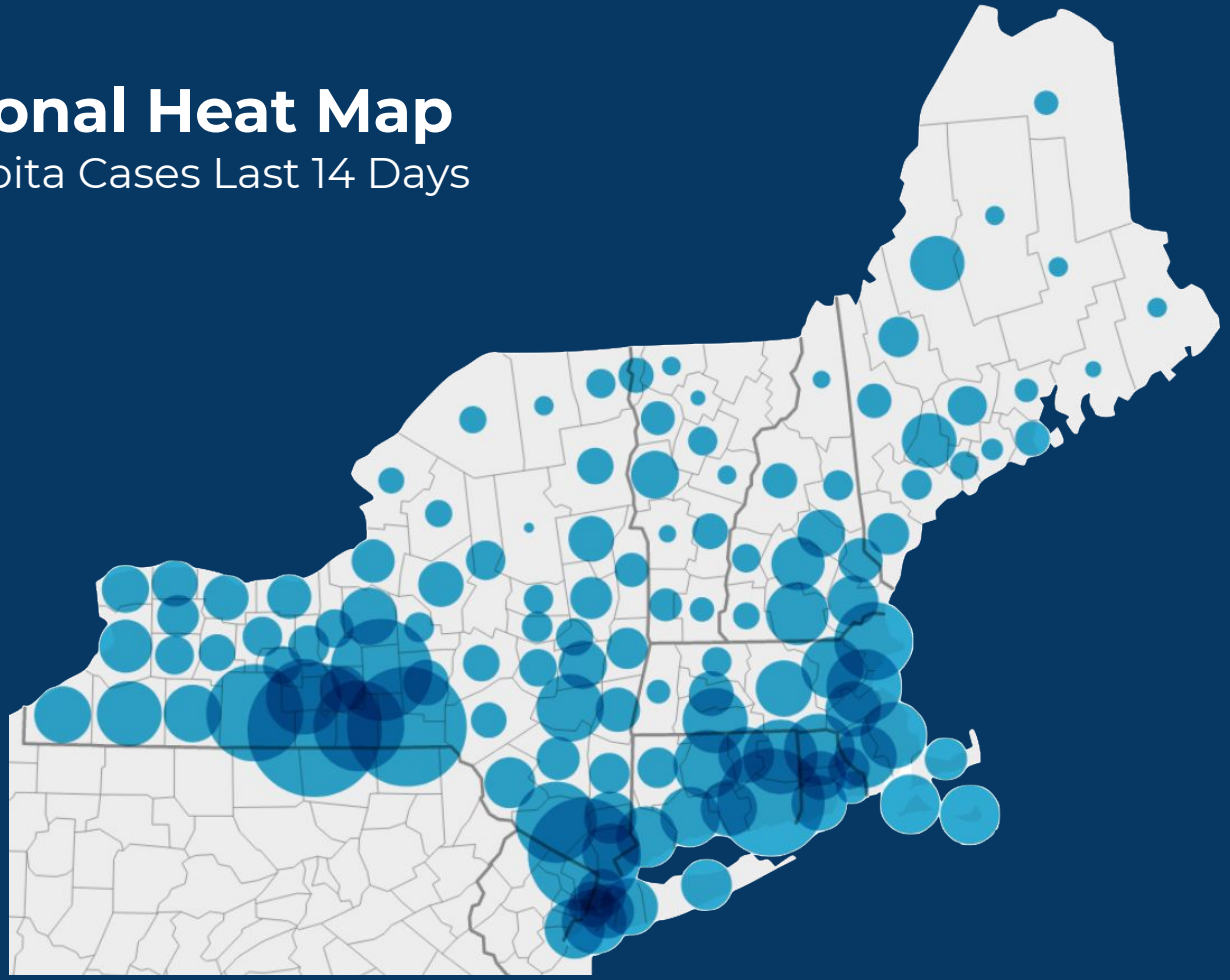
Week-over-Week Northeast Case Growth Since March 16, 2020



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

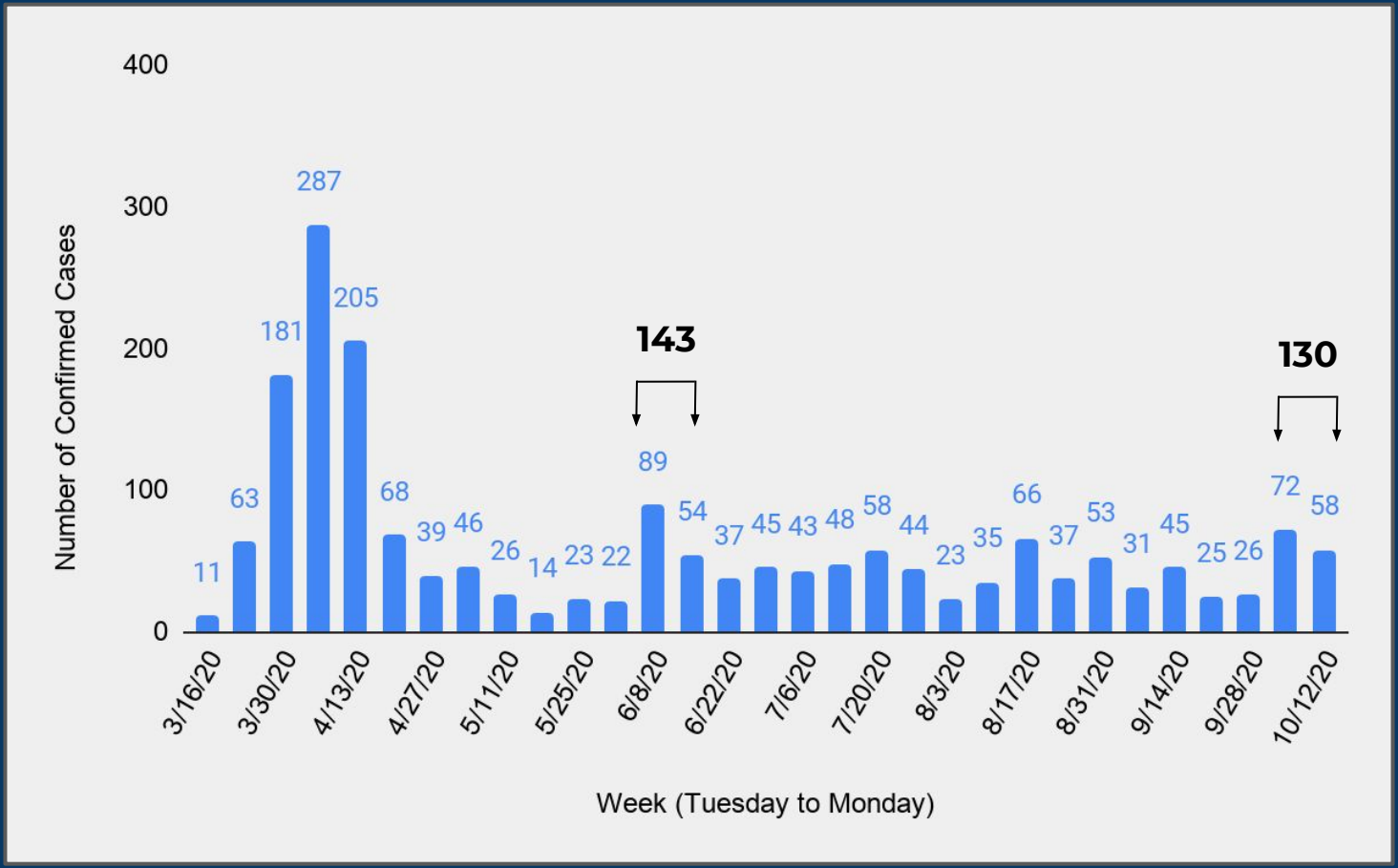
Regional Heat Map

Per Capita Cases Last 14 Days



Vermont Data

Vermont Weekly Totals



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

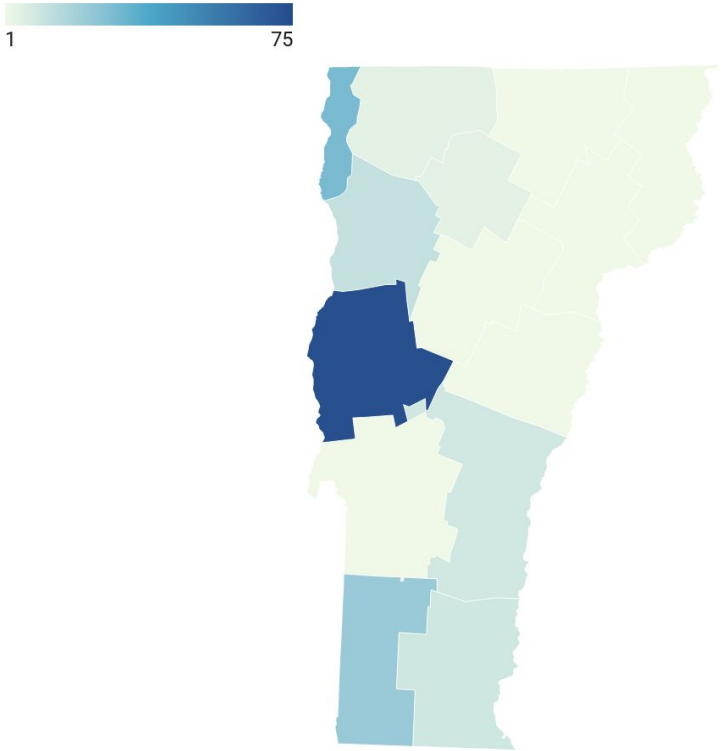
Lowest 7-Day COVID-19 Infectious Rates

	State	Daily Infections per 100K		Weekly Infections per 100K ▲
1	Vermont	1.7	1.4	12
2	Maine	2.4	2.2	16
3	New Hampshire	5.2	5.9	37
4	Washington	6.8	5.2	46
5	Hawaii	6.5	6.7	46
6	New York	6.8	7.2	50
7	Connecticut	7.7	9	53
8	Oregon	6.9	8.2	55
9	California	8.2	8.1	58
31	National Average	16.6	19.9	128

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

Vermont Weekly Cases by County (per 100,000)

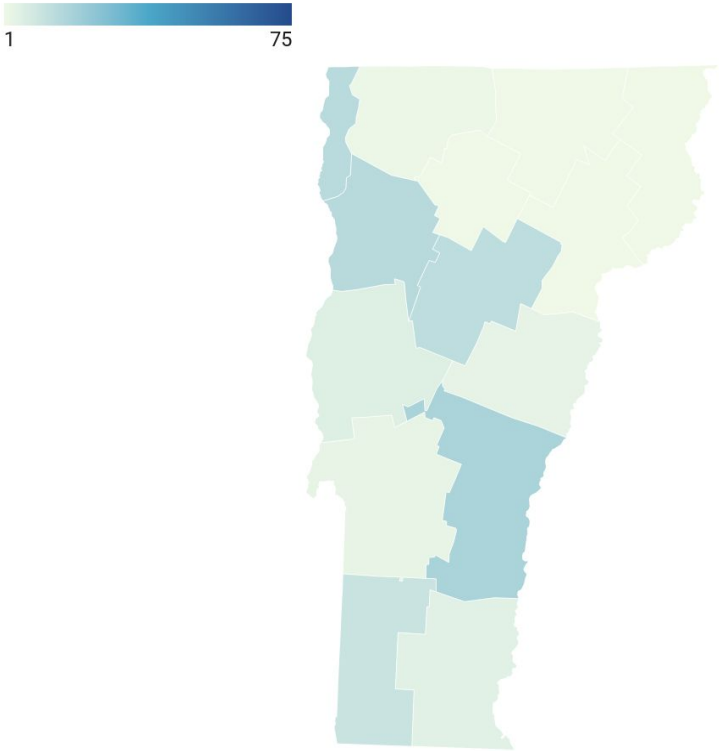
Results Reported September 29 to October 5



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 6 to 12



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

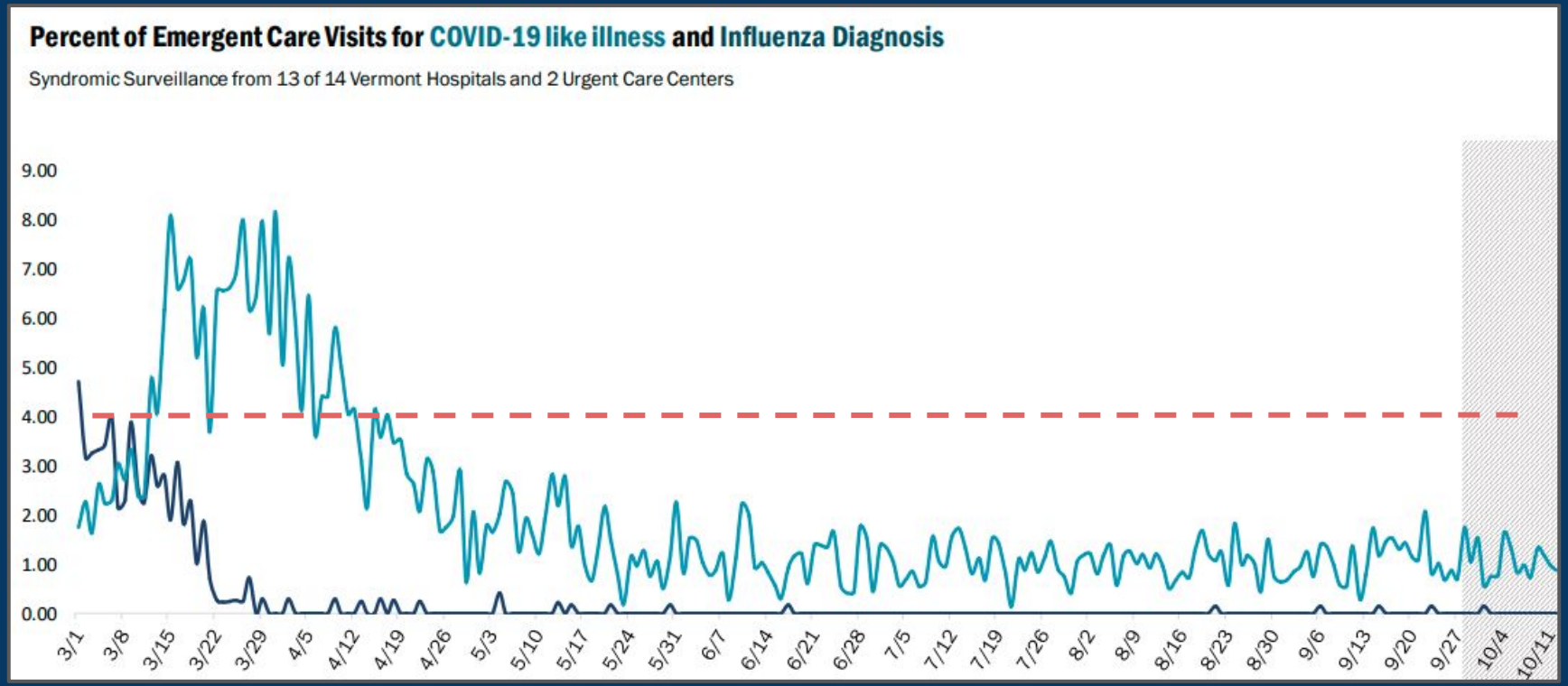
RESTART VERMONT

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

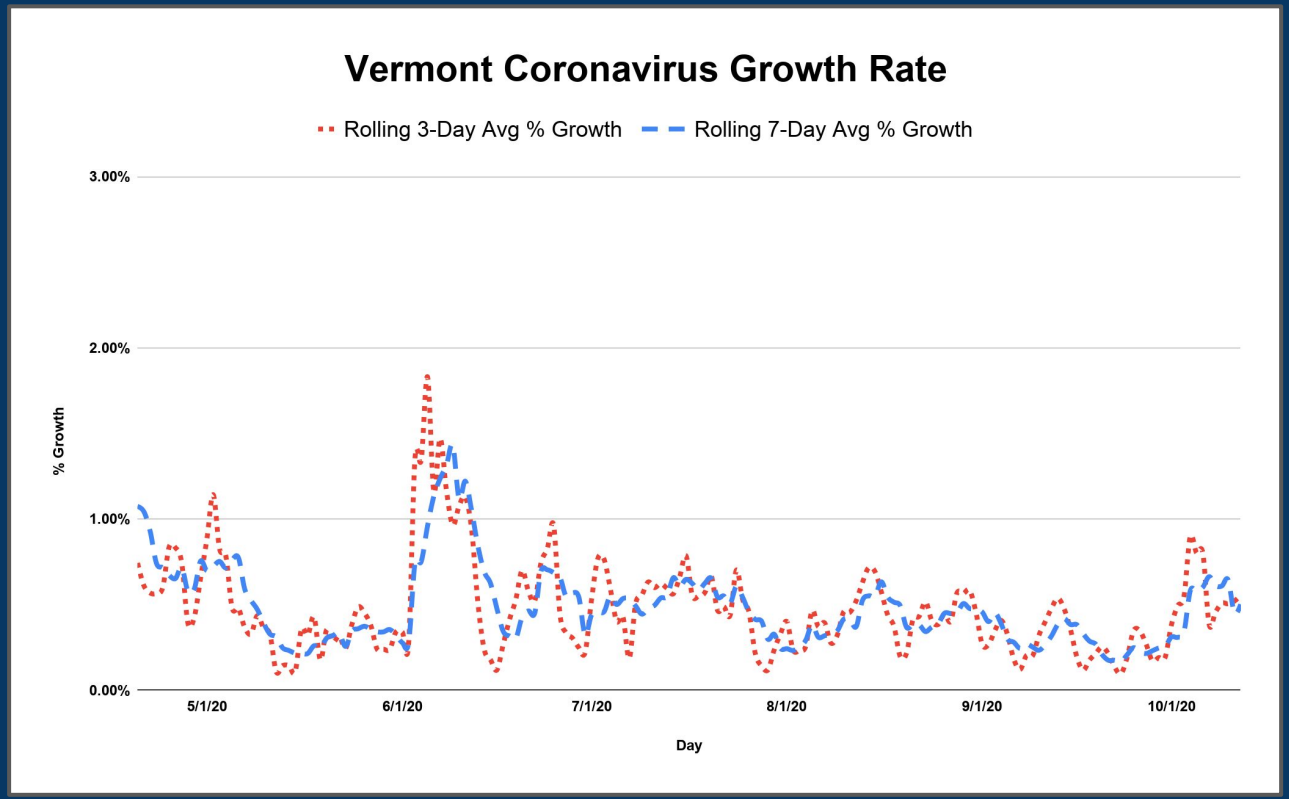
- **Summary:** Percentage of visits with COVID-19 like illness and Influenza diagnosis
- **Warning Flag:** Percentage of visits exceeding 4% for multiple consecutive days



Source: Vermont Department of Health - October 13, 2020

Data Point 2: Viral Growth and Reproductive Rates

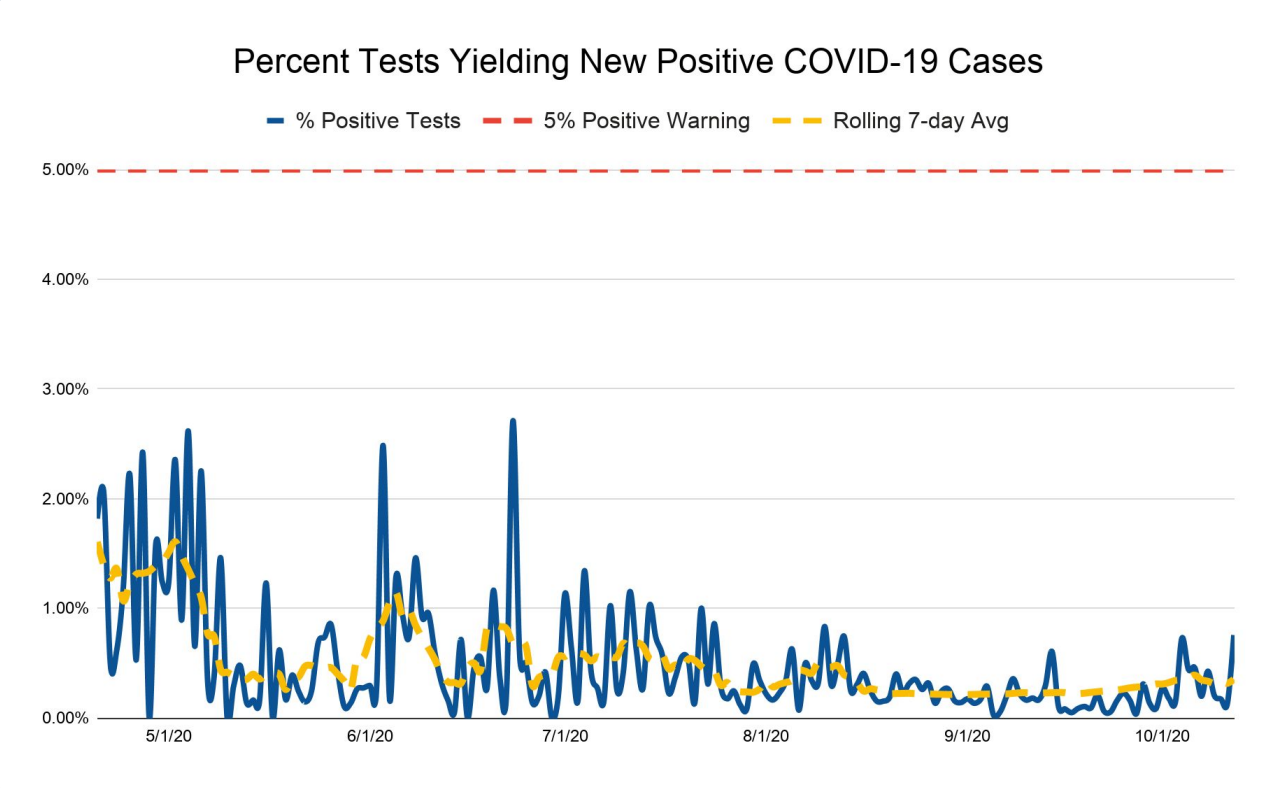
- **Summary:** Case growth measured by daily, 3-day, 7-day, and effective reproductive rate (R_t)
- **Warning Flags:** Sustained viral growth that would lead to <30% open ICU beds



Source: Vermont Department of Health - October 13, 2020

Data Point 3: Percentage of New Positive Tests

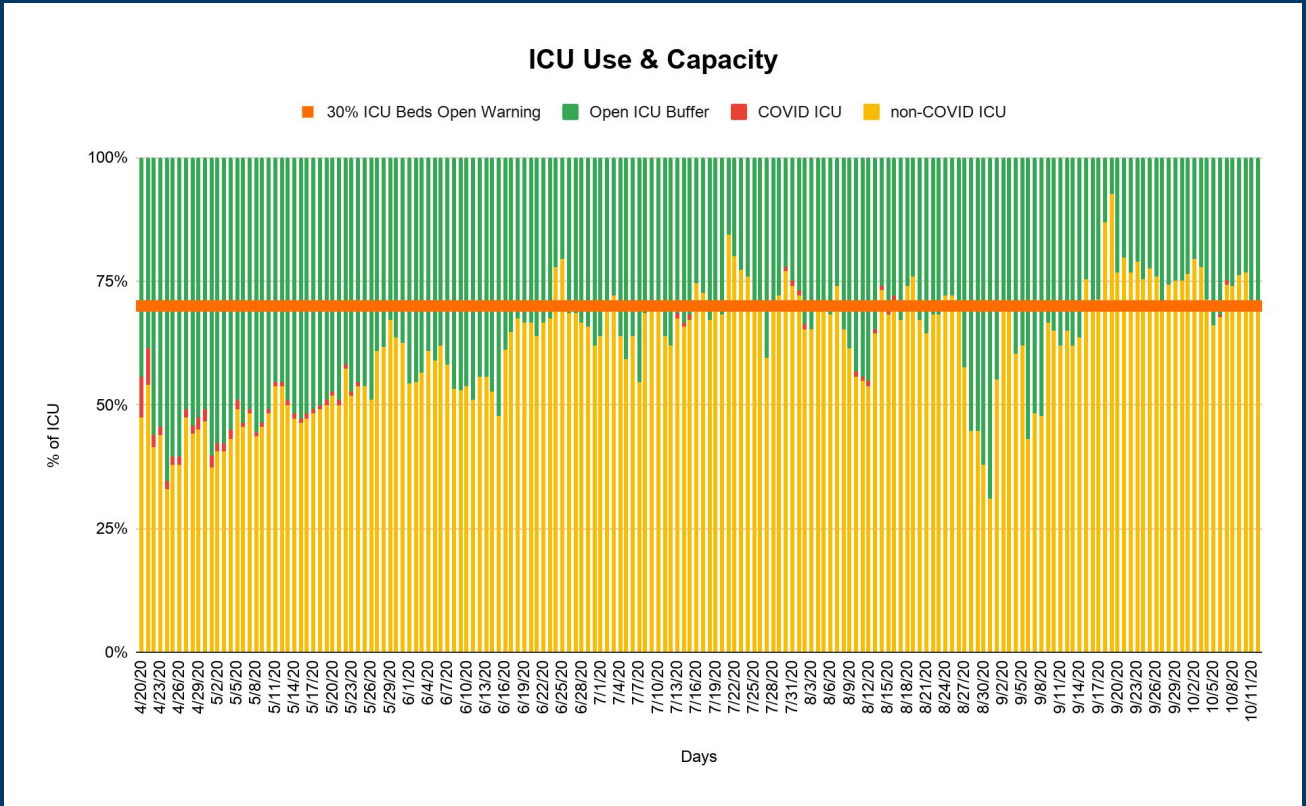
- **Summary:** Percent of tests resulting in a new positive case
- **Warning Flags:** New positives represent >5% of daily results



Source: Vermont Department of Health - October 13, 2020

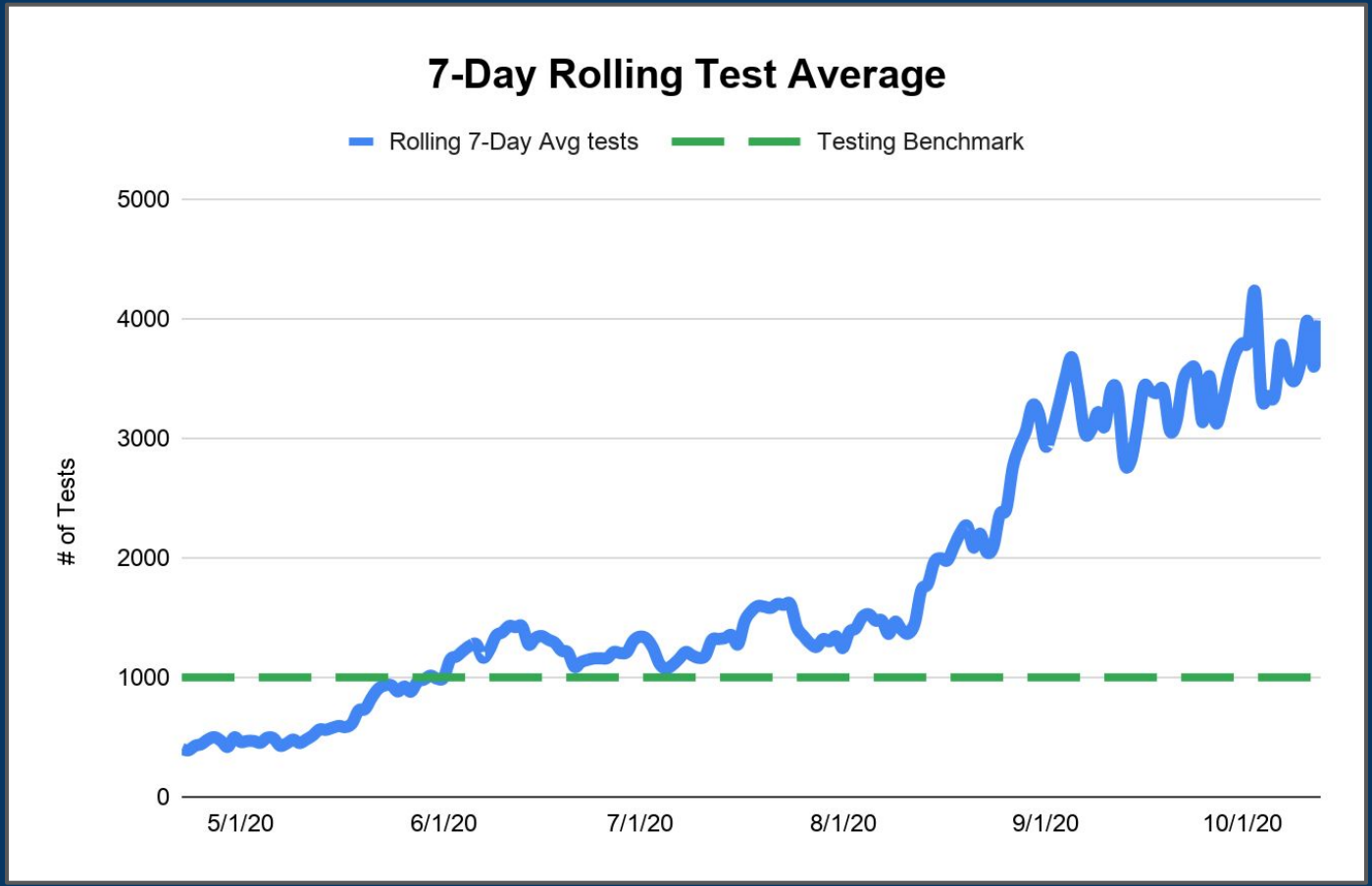
Data Point 4: Hospital & Critical Care Beds

- **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 13, 2020

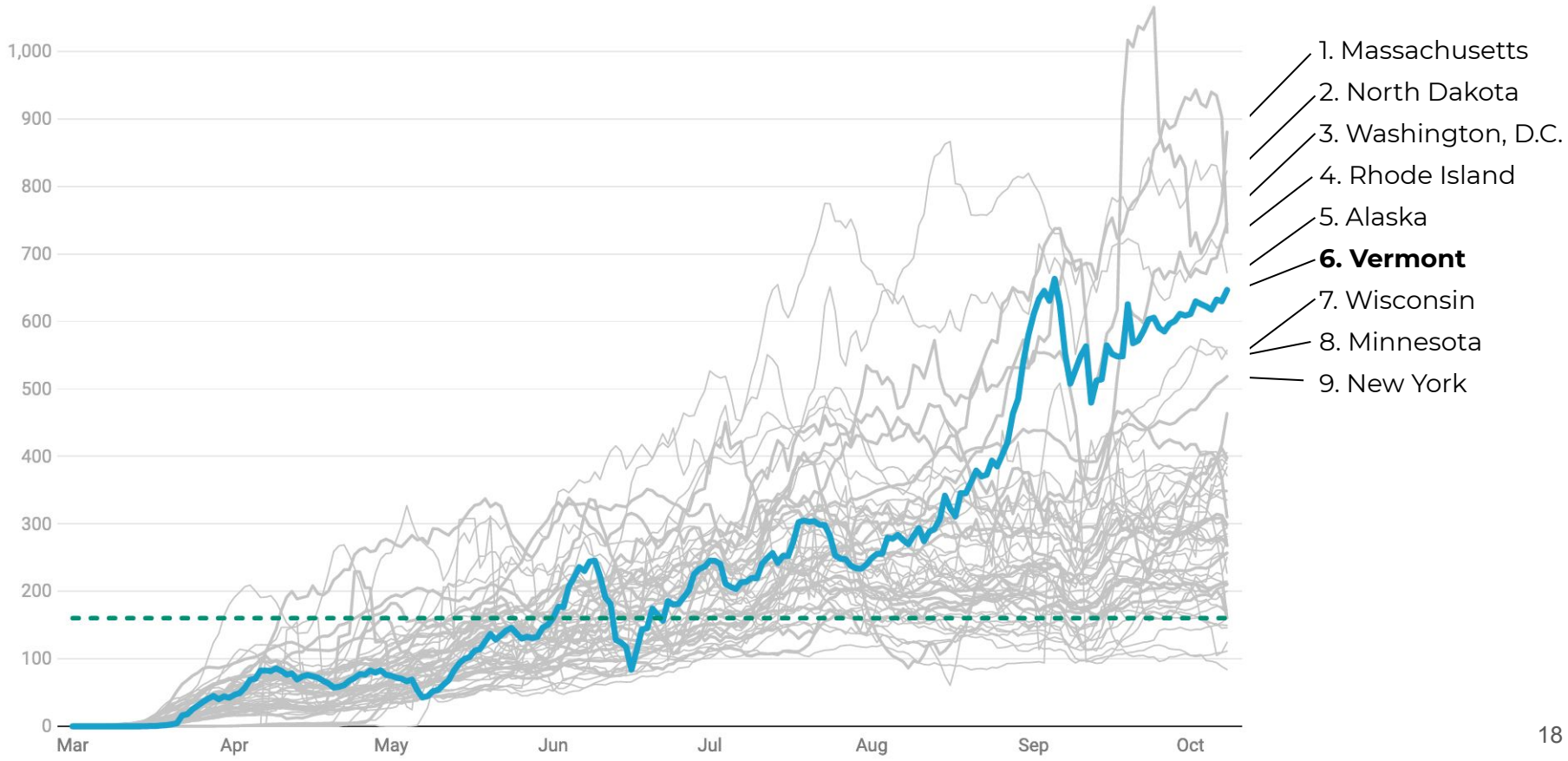
Vermont Testing



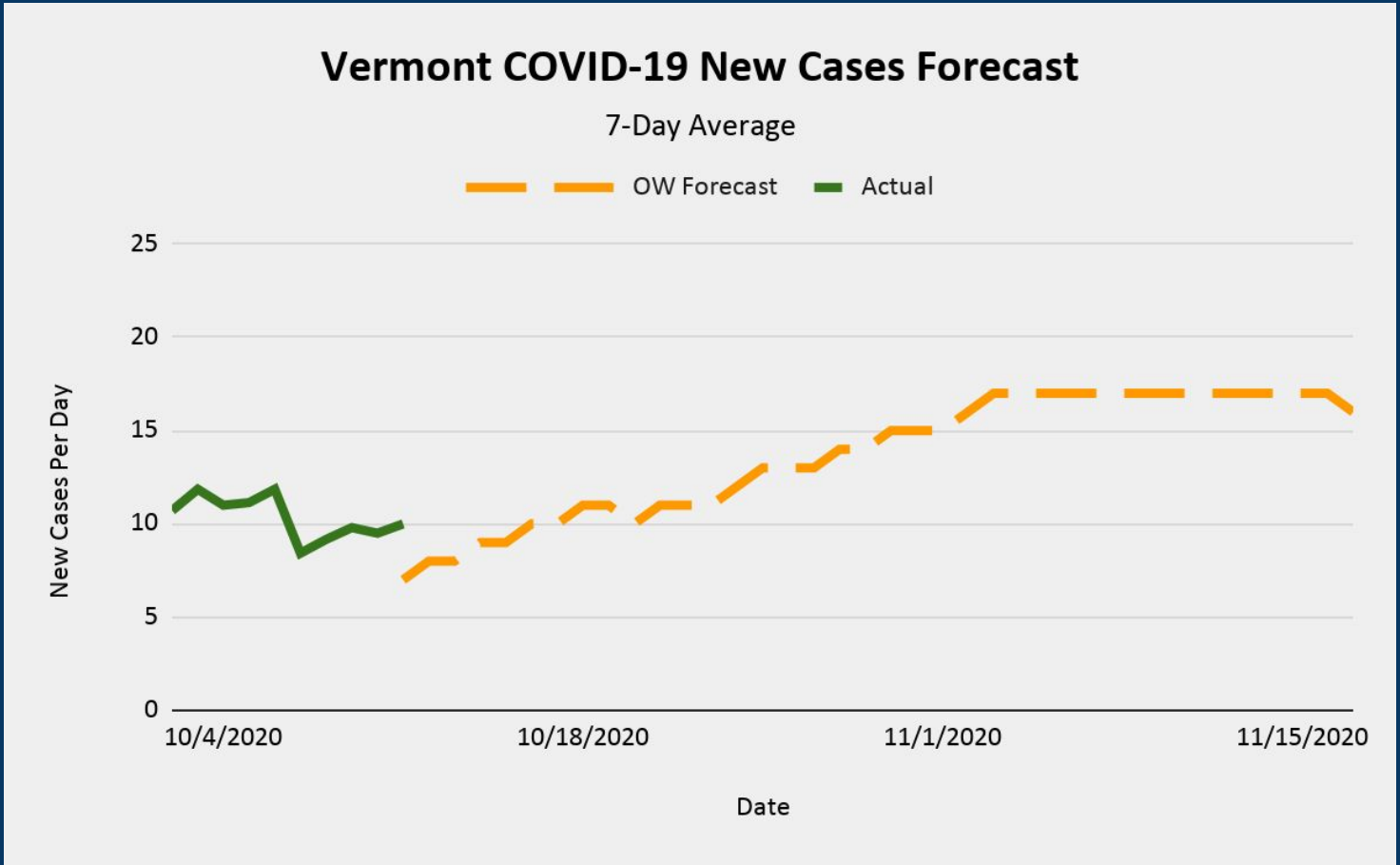
Source: Vermont Dept. of Health - October 13, 2020; results reported to VDH daily

Vermont Among Top Testing Per Capita States

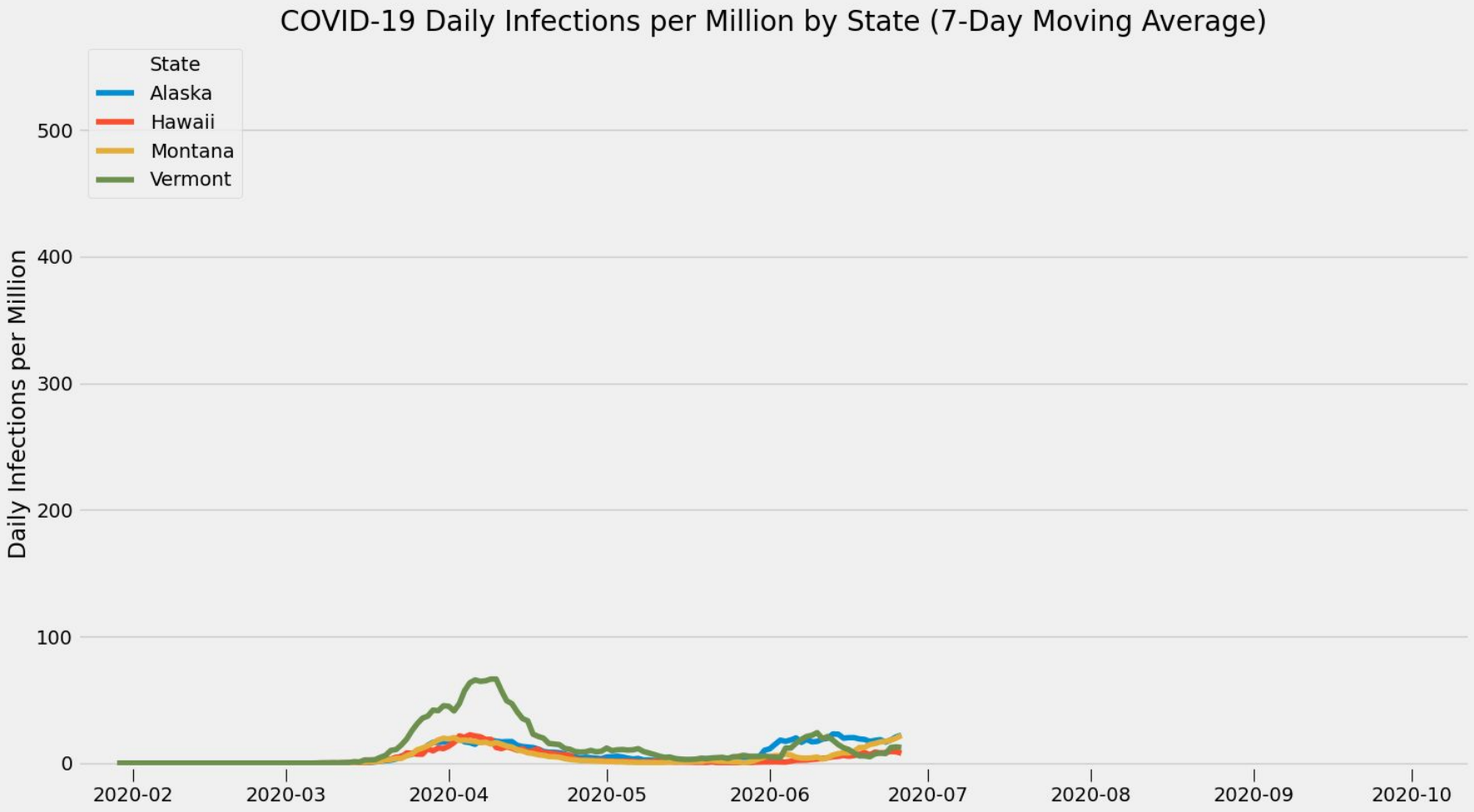
PCR Tests per 100,000 residents.
Source: The Centers for Disease Control and Prevention

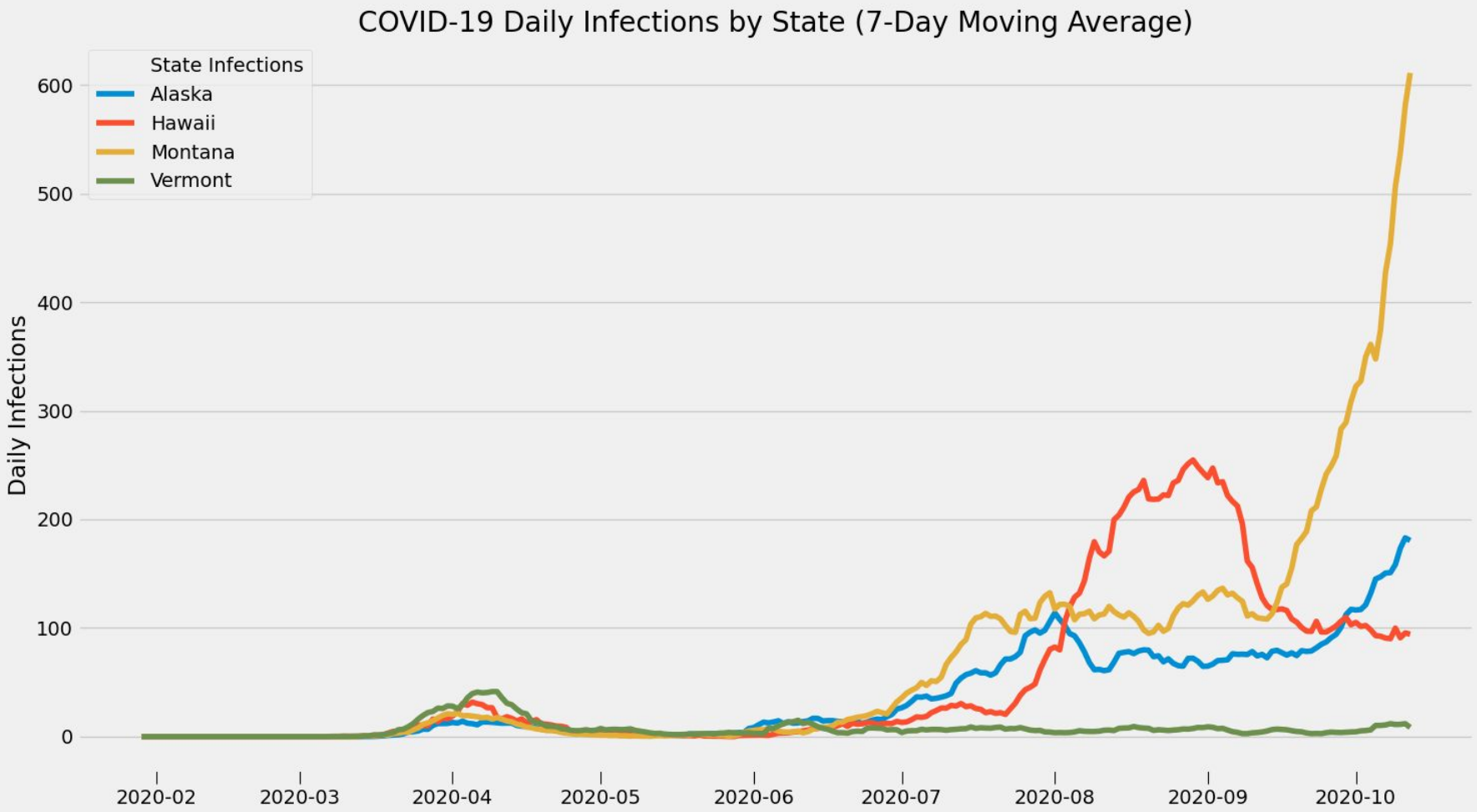


Vermont Forecast October 13 to November 17



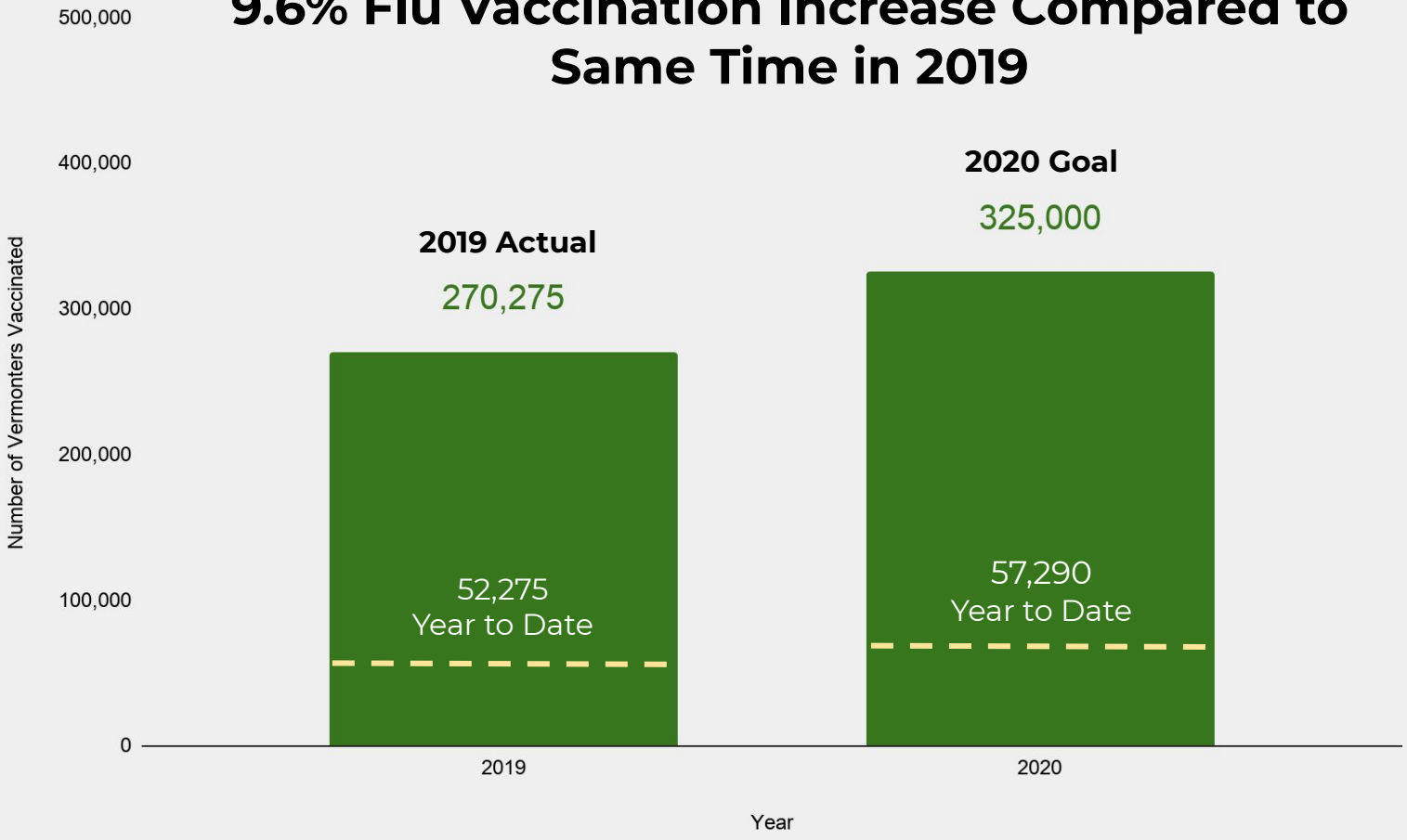
Source: Oliver Wyman Forecast Model - October 13, 2020


COVID-19 Daily Infections per Million by State (7-Day Moving Average)
State
Alaska
Hawaii
Montana
Vermont
Daily Infections per Million
500
400
300
200
100
0
2020-02
2020-03
2020-04
2020-05
2020-06
2020-07
2020-08
2020-09
2020-10


COVID-19 Daily Infections by State (7-Day Moving Average)
State Infections
Alaska
Hawaii
Montana
Vermont
Daily Infections
600
500
400
300
200
100
0
2020-02
2020-03
2020-04
2020-05
2020-06
2020-07
2020-08
2020-09
2020-10

Vermont Flu Vaccine Data

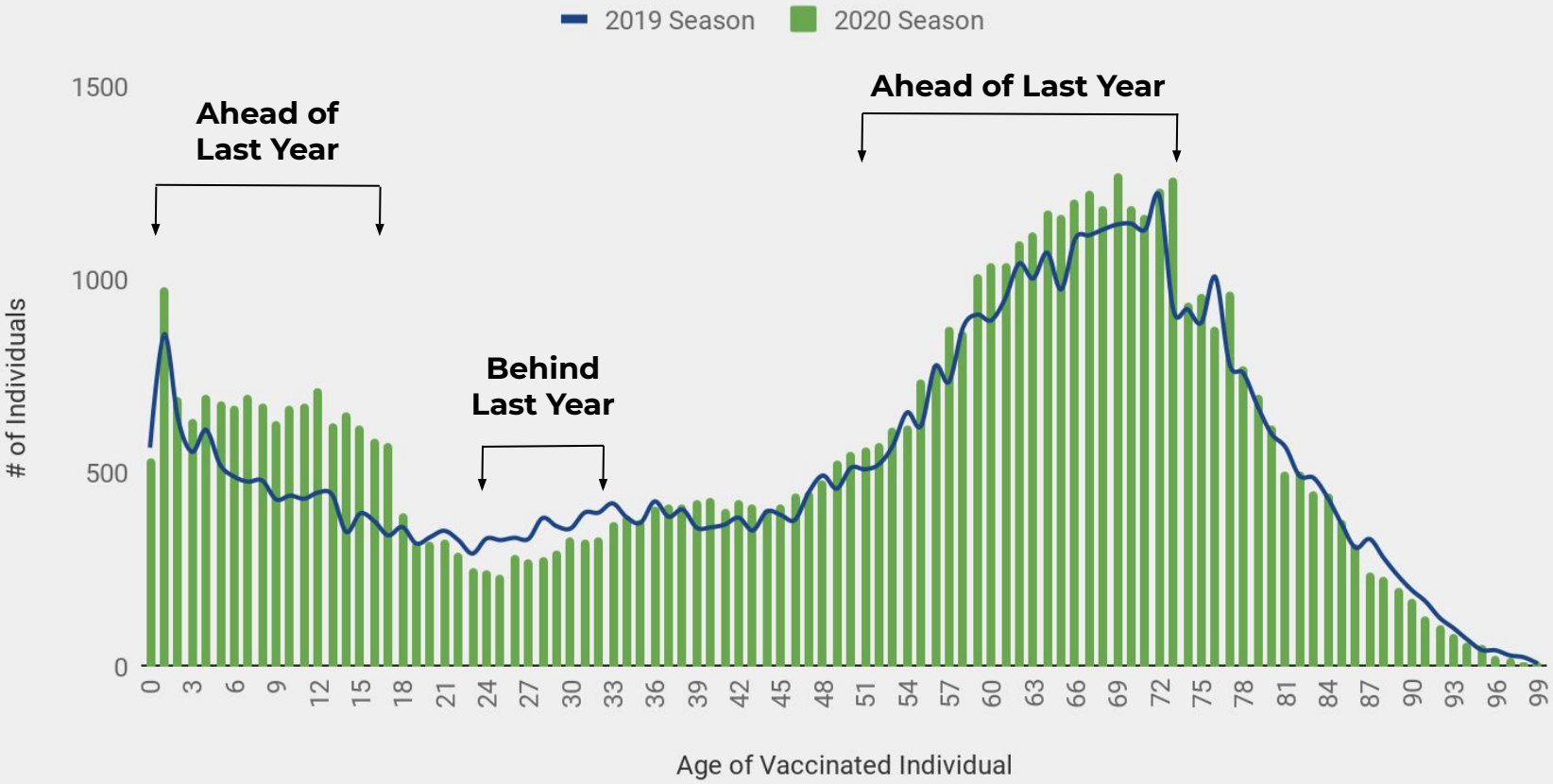
9.6% Flu Vaccination Increase Compared to Same Time in 2019



Source: Vermont Department of Health & ADS; Immunization Registry; Measured from July 1 to October 4, 2019 and 2020

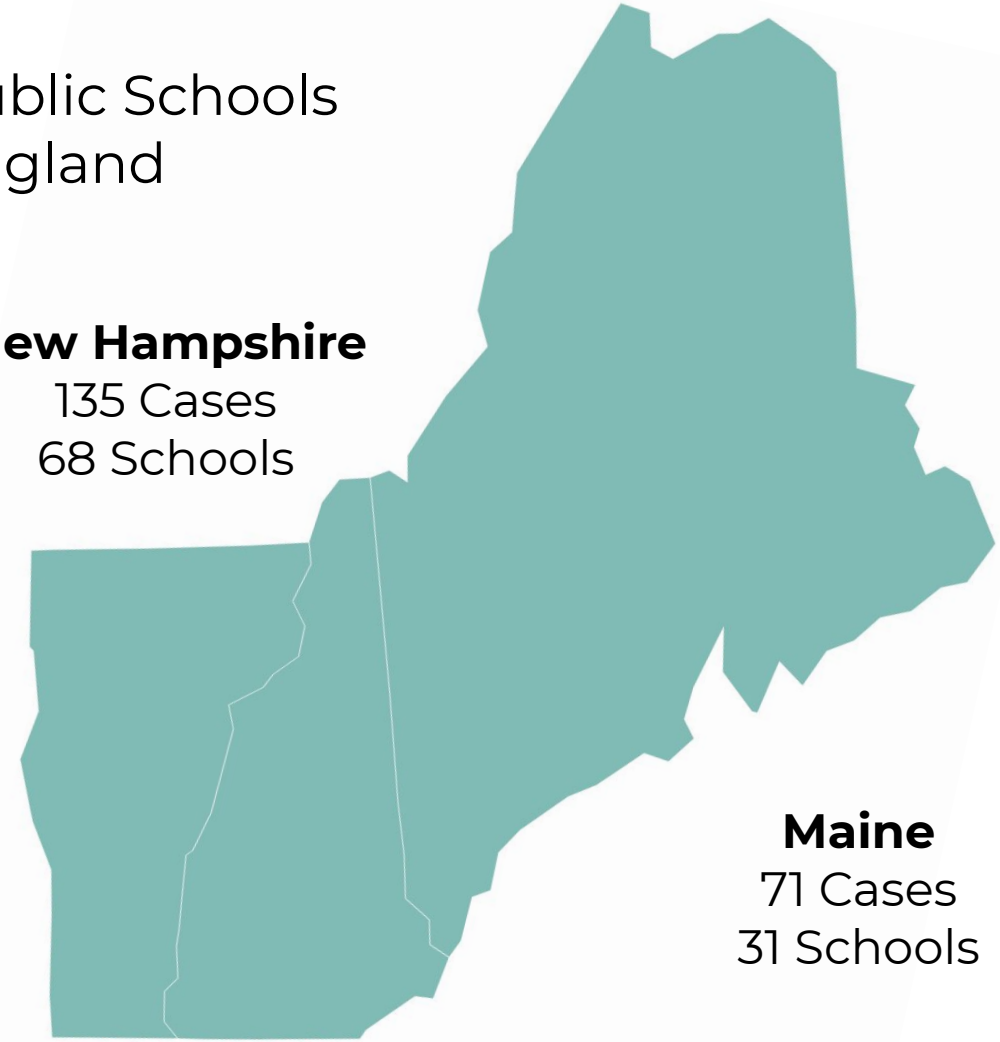
Vermont Influenza Vaccinations

Through October 4, 2019/20



K-12 & Higher Education Update

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

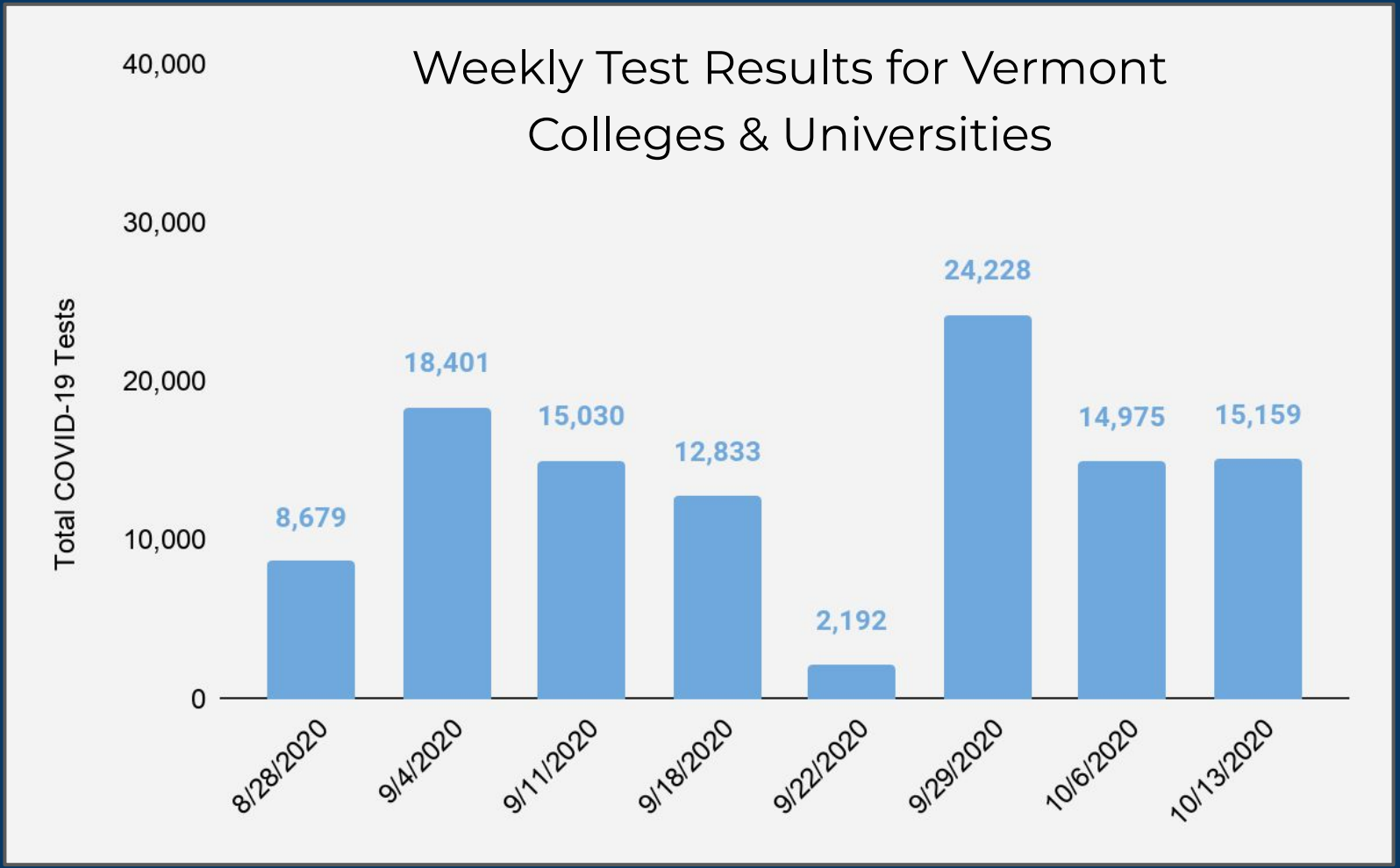


New Hampshire
135 Cases
68 Schools

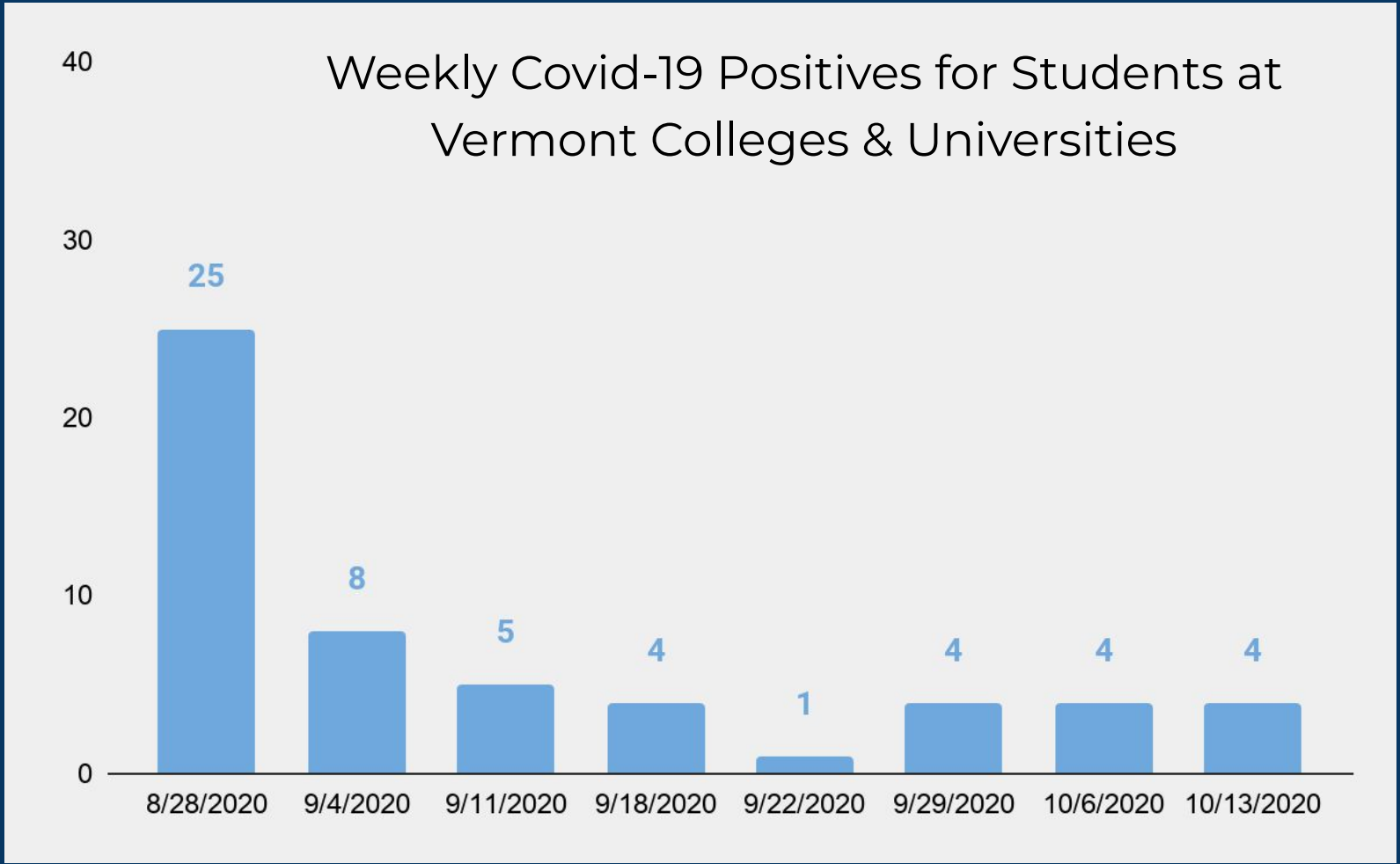
Vermont
5 Cases
4 Schools

Maine
71 Cases
31 Schools

Source: VDH; New Hampshire School Dashboard; and public reporting



Source: Vermont Colleges and Universities



Source: Vermont Colleges and Universities

Northern New England Higher Education Update

	Total	Positives	Positivity Rate
New Hampshire*	233,247	276	0.12%
Maine*	76,681	48	0.06%
Vermont	111,497	55	0.05%

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

Individual Test Results for Vermont Colleges & Universities as of October 13, 2020

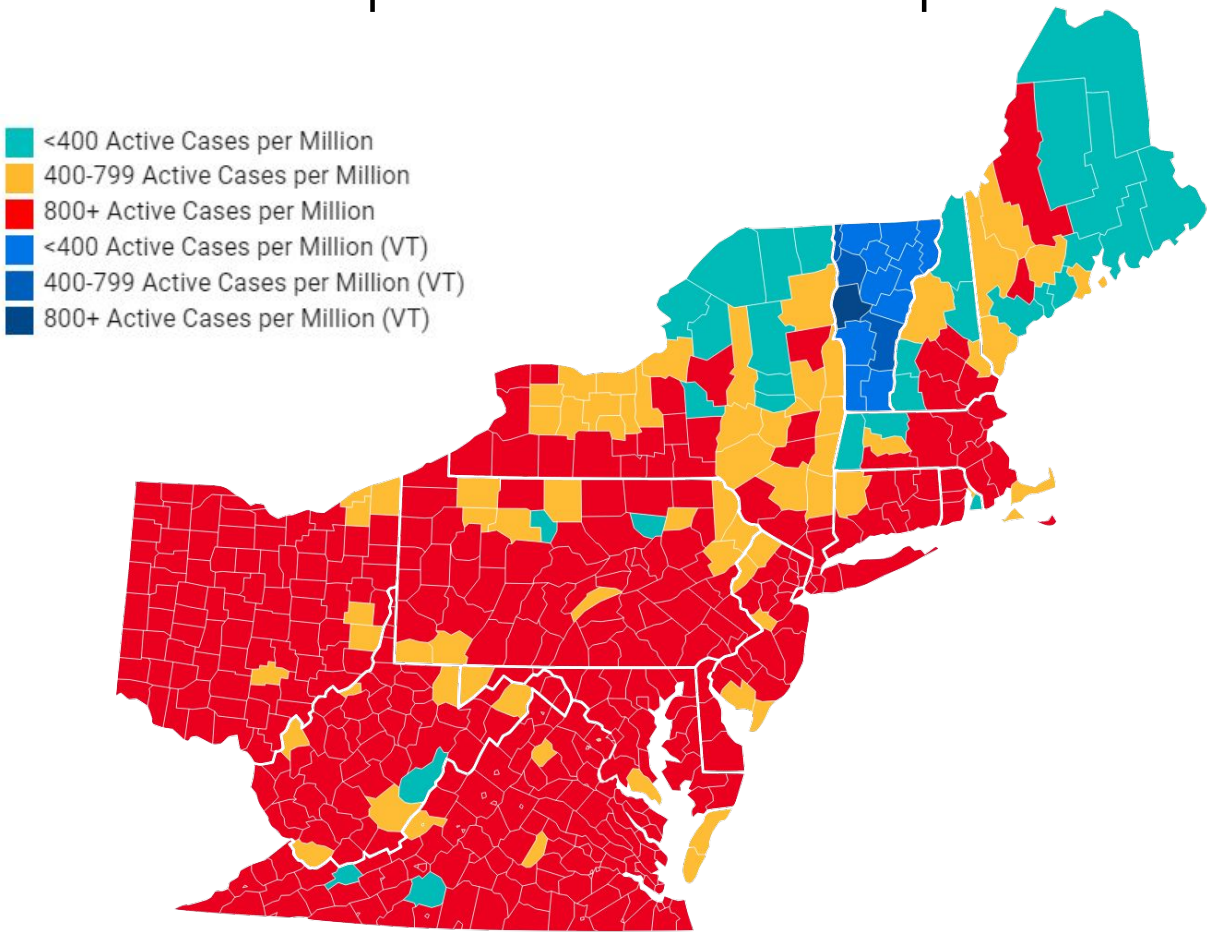
College / University	Total Tests	Student Positives	Faculty Positives	Dashboard / Public Information
Middlebury College	8,177	2	2	https://www.middlebury.edu/office/midd2021/covid-reporting-dashboard
University of Vermont	70,796	31*	0	https://www.uvm.edu/returntocampus/uvm-weekly-testing-report
Norwich University	9,112	6	0	https://www.norwich.edu/news/psa
Northern Vermont University	3,290	0	0	https://www.northernvermont.edu/nvu-during-covid-19
Castleton University	1,225	2	0	https://www.castleton.edu/covid-19-coronavirus-updates/covid-19-test-results/
Vermont Technical College	437	3	0	https://www.vtc.edu/update-on-the-covid-19-coronavirus/
Saint Michael's College	3,624	1	0	https://www.smcvt.edu/return-to-campus/
Sterling College	210	0	0	https://sterlingcollege.edu/coronavirus-2019/
Champlain College	9,730	5	0	https://view.champlain.edu/champlain-college-covid-19-testing-dashboard/
Bennington College	3,361	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	1259	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	111,497	55	3	

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

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

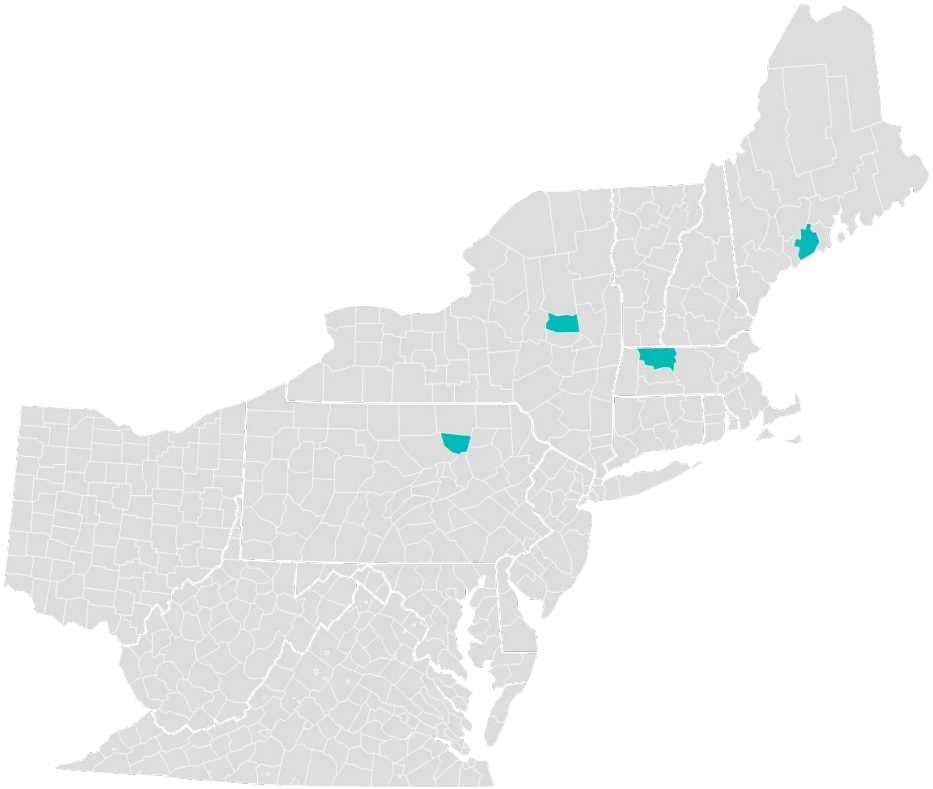
Travel Map Update

Updated Travel Map

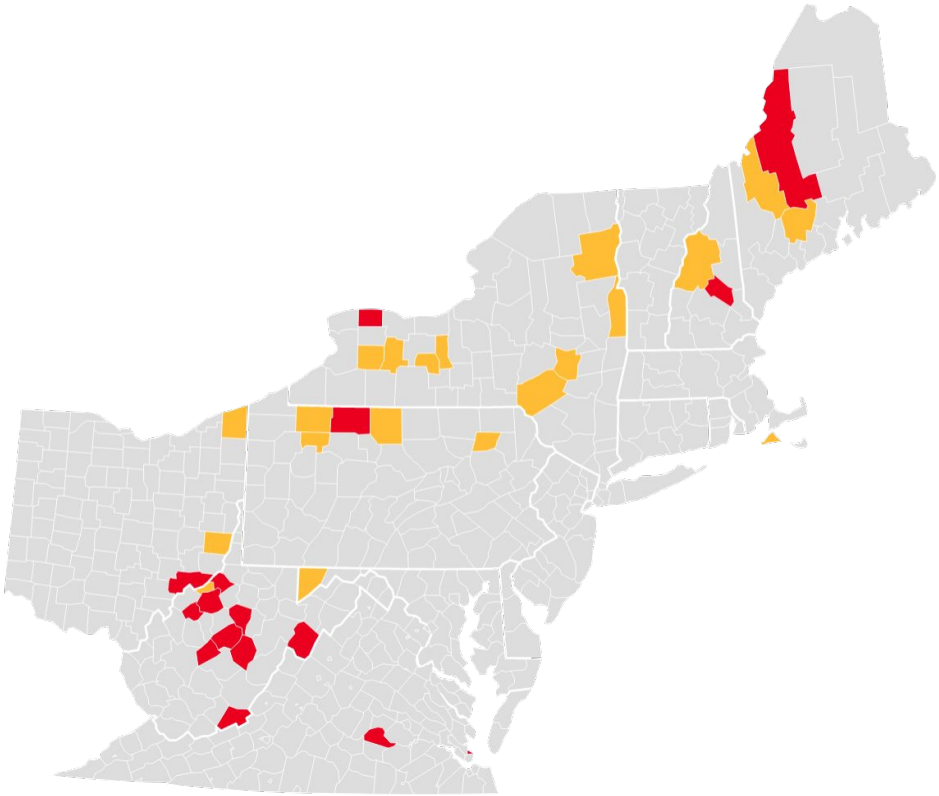


Source: Raw data from Johns Hopkins University—October 13, 2020 (dynamic map available at Vermont ACCD site)

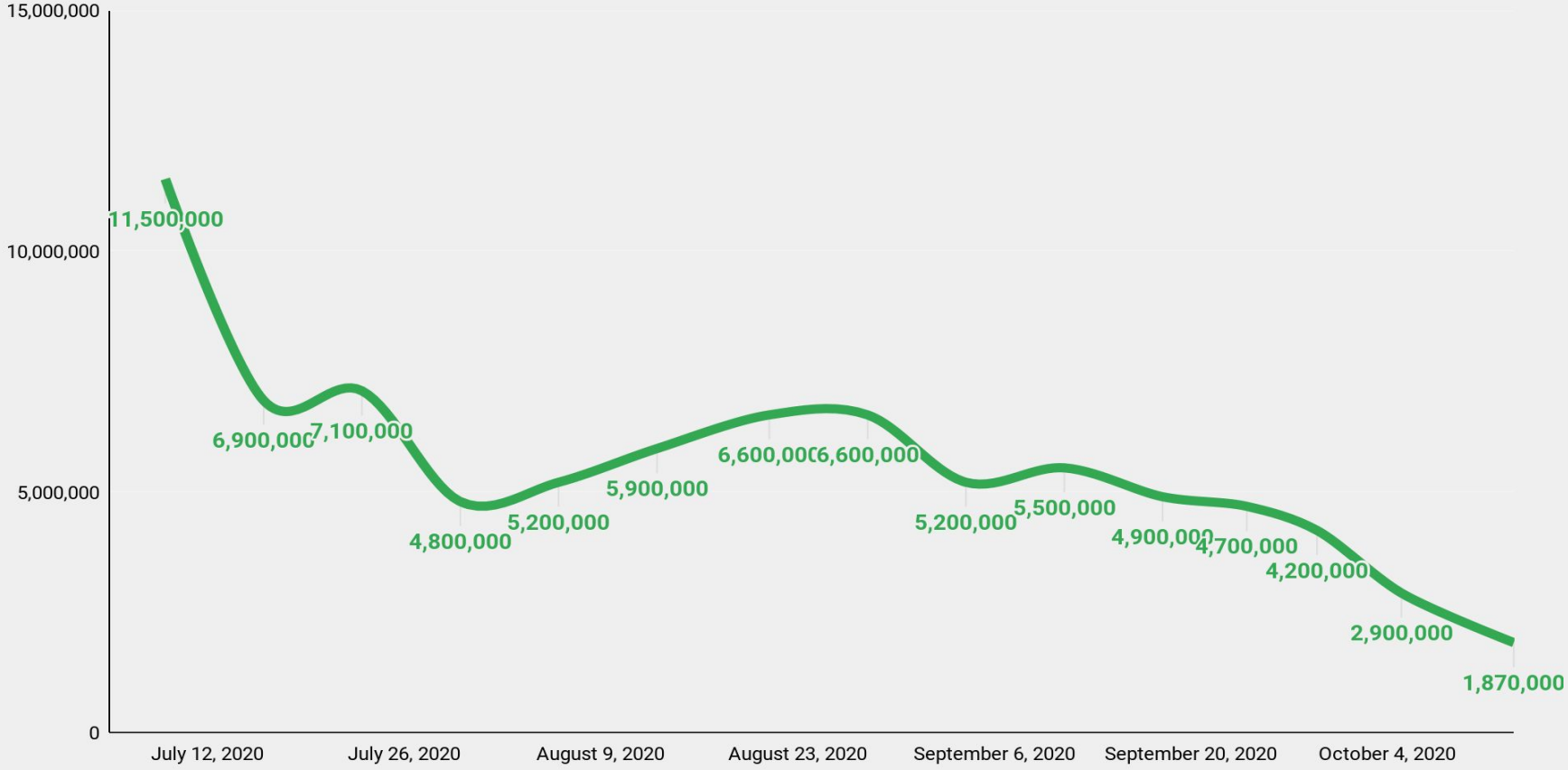
Improving: Moving from Yellow or Red to Green



Worsening: Moving to Yellow or Red



Population From "Green" Counties



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