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

Spring Peak

Winooski Outbreak

Starting from a Higher Base
Multiple Simultaneous Outbreaks

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
United States COVID-19 Hospitalizations by Day

Chart: Ryan Taggard • Source: COVID Tracking Project • Created with Datawrapper

Source: Raw data from COVID Tracking Project—October 27, 2020
Vermont hospitalizations have remained low since late Spring.
United States COVID-19 Deaths by Day (7-Day Average)

Source: Raw data from COVID Tracking Project—October 27, 2020
Vermont COVID-19 Deaths by Day (7-Day Average)

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

Week (Tuesday to Monday)

Number of Confirmed Cases

Sources: Vermont Department of Health (week calculated as Tuesday to Monday)
Vermont COVID-19 New Cases Forecast

7-Day Average

- Actual
- OW Oct. 21 Forecast
- OW Oct. 27 Forecast

New Cases Per Day

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

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

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

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

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

New York
"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

<table>
<thead>
<tr>
<th>State</th>
<th>Daily Infections per 100K</th>
<th>Weekly Infections per 100K</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Vermont</td>
<td>1.6</td>
<td>3.1</td>
</tr>
<tr>
<td>2 Maine</td>
<td>2.2</td>
<td>3.1</td>
</tr>
<tr>
<td>3 Hawaii</td>
<td>5.9</td>
<td>6.5</td>
</tr>
<tr>
<td>4 New Hampshire</td>
<td>5.8</td>
<td>6.8</td>
</tr>
<tr>
<td>5 District of Columbia</td>
<td>7.6</td>
<td>8.4</td>
</tr>
<tr>
<td>6 New York</td>
<td>7.2</td>
<td>8.4</td>
</tr>
<tr>
<td>7 Oregon</td>
<td>8.0</td>
<td>9.0</td>
</tr>
<tr>
<td>8 Washington</td>
<td>8.2</td>
<td>9.1</td>
</tr>
<tr>
<td>9 California</td>
<td>8.1</td>
<td>11.1</td>
</tr>
<tr>
<td>10 Maryland</td>
<td>10.4</td>
<td>11.1</td>
</tr>
<tr>
<td>52 National Average</td>
<td>23.9</td>
<td>27.9</td>
</tr>
</tbody>
</table>

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

7-Day Rolling Test Average

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

Vermont New Hampshire Maine Other States

Source: Google • Created with Datawrapper
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
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

2019 Actual
270,275

Year to Date
109,266

2020 Goal
325,000

Year to Date
123,566

38% to 2020 goal

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

2019 Season  2020 Season

Ahead of Last Year

Ahead of Last Year

Ahead of Last Year

Behind Last Year

Age of Vaccinated Individual

# of individuals

0 1000 2000 3000

0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93 96 99
K-12 & Higher Education Update
Covid-19 Cases in K-12 Public Schools Across Northern New England

Vermont
25 Cases
19 Schools

New Hampshire
248 Cases
137 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

81 Total Cases

Source: Vermont Colleges and Universities (presentation switched to Tuesday on September 22, 2020)
### Northern New England Higher Education Update

<table>
<thead>
<tr>
<th>State</th>
<th>Total Tests</th>
<th>Positives</th>
<th>Positivity Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Hampshire*</td>
<td>300,599</td>
<td>344</td>
<td>0.11%</td>
</tr>
<tr>
<td>Maine*</td>
<td>102,918</td>
<td>64</td>
<td>0.06%</td>
</tr>
<tr>
<td>Vermont</td>
<td>142,986</td>
<td>81</td>
<td>0.06%</td>
</tr>
</tbody>
</table>

* Includes NH & ME colleges & universities that publicly provide COVID-19 testing data.
# Vermont Higher Education Restart

## Institution Data as of October 27, 2020

<table>
<thead>
<tr>
<th>College / University</th>
<th>Total Tests</th>
<th>Student Positives</th>
<th>Faculty Positives</th>
<th>Dashboard / Public Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middlebury College</td>
<td>9,639</td>
<td>2</td>
<td>2</td>
<td><a href="https://www.middlebury.edu/office/midd2021/covid-reporting-dashboard">https://www.middlebury.edu/office/midd2021/covid-reporting-dashboard</a></td>
</tr>
<tr>
<td>University of Vermont</td>
<td>91,576</td>
<td>27</td>
<td>0</td>
<td><a href="https://www.uvm.edu/returntocampus/uvm-weekly-testing-report">https://www.uvm.edu/returntocampus/uvm-weekly-testing-report</a></td>
</tr>
<tr>
<td>Norwich University</td>
<td>11,441</td>
<td>6</td>
<td>1</td>
<td><a href="https://www.norwich.edu/news/psa">https://www.norwich.edu/news/psa</a></td>
</tr>
<tr>
<td>Northern Vermont University</td>
<td>3,849</td>
<td>1</td>
<td>0</td>
<td><a href="https://www.northernvermont.edu/nyu-during-covid-19">https://www.northernvermont.edu/nyu-during-covid-19</a></td>
</tr>
<tr>
<td>Saint Michael's College</td>
<td>5,654</td>
<td>30</td>
<td>0</td>
<td><a href="https://www.smuvt.edu/return-to-campus/">https://www.smuvt.edu/return-to-campus/</a></td>
</tr>
<tr>
<td>Sterling College</td>
<td>212</td>
<td>0</td>
<td>0</td>
<td><a href="https://sterlingcollege.edu/coronavirus-2019/">https://sterlingcollege.edu/coronavirus-2019/</a></td>
</tr>
<tr>
<td>Champlain College</td>
<td>12,595</td>
<td>5</td>
<td>0</td>
<td><a href="https://view.champlain.edu/champlain-college-covid-19-testing-dashboard/">https://view.champlain.edu/champlain-college-covid-19-testing-dashboard/</a></td>
</tr>
<tr>
<td>Bennington College</td>
<td>4,220</td>
<td>3</td>
<td>0</td>
<td><a href="https://www.bennington.edu/covid-19-updates-and-information">https://www.bennington.edu/covid-19-updates-and-information</a></td>
</tr>
<tr>
<td>Vermont College of Fine Arts</td>
<td>161</td>
<td>0</td>
<td>0</td>
<td>Does not have a public dashboard at this time</td>
</tr>
<tr>
<td>Vermont Law School</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>Remote learning for Fall 2020 - Some students using campus facilities</td>
</tr>
<tr>
<td>Albany College of Pharmacy</td>
<td>108</td>
<td>0</td>
<td>0</td>
<td><a href="https://www.acphs.edu/health-safety">https://www.acphs.edu/health-safety</a></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>142,986</strong></td>
<td><strong>81</strong></td>
<td><strong>4</strong></td>
<td></td>
</tr>
</tbody>
</table>
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
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

Population in Millions

July 12, 2020: 11.50
July 26, 2020: 6.90
August 9, 2020: 7.10
August 23, 2020: 5.20
September 6, 2020: 6.80
September 20, 2020: 6.60
October 4, 2020: 5.20
October 18, 2020: 5.50
November 6, 2020: 4.90
November 20, 2020: 4.70
December 10, 2020: 4.20
December 23, 2020: 2.90
January 6, 2021: 1.87
January 18, 2021: 1.60
February 6, 2021: 0.88
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COVID-19

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