COVID-19 Modeling
May 3, 2022

Presentation available at: dfr.vermont.gov
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Vermont
Case Data
The 7-day average has increased from 285 to 326 (+5%) cases per day over the last week.
Vermont reported 2,317 new COVID-19 cases this week, 318 more cases compared to last week.
Vermont COVID-19 PCR Testing

Week-over-week testing was flat
Vermont PCR Test Positivity

Test positivity **increased** over the last 7 days
Sars-Cov-2 in Burlington Wastewater

Average Across Plants by Week, Weighted by Population

Source: Burlington Wastewater Testing; April 25, 2022
VT COVID-19 Infection Confidence Intervals

Calculated as a 7-day mean. Inner and outer bands represent 50% and 95% confidence intervals, respectively.

Source: Johns Hopkins University & CDC—May 2, 2022; created with Datawrapper
COVID-19 fatalities are expected to remain low over the next 4 weeks.
Active Outbreaks in Long Term Care Facilities

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>Total COVID-19 Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barre Gardens</td>
<td>68</td>
</tr>
<tr>
<td>Centers for Living &amp; Rehabilitation</td>
<td>41</td>
</tr>
<tr>
<td>Pine Heights at Brattleboro</td>
<td>35</td>
</tr>
<tr>
<td>Converse Home INC</td>
<td>31</td>
</tr>
<tr>
<td>Villa Rehab Center</td>
<td>29</td>
</tr>
<tr>
<td>Brownway Residence</td>
<td>28</td>
</tr>
<tr>
<td>Green Mountain Nursing and Rehab</td>
<td>14</td>
</tr>
<tr>
<td>The Residence at Shelburne Bay</td>
<td>12</td>
</tr>
<tr>
<td>Cathedral Square Assisted Living</td>
<td>11</td>
</tr>
<tr>
<td>Residence at Otter Creek</td>
<td>9</td>
</tr>
<tr>
<td>Eastview At Middlebury</td>
<td>7</td>
</tr>
<tr>
<td>Michaud Memorial Manor</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>292</strong></td>
</tr>
</tbody>
</table>
Vermont Hospitalization Data
Average hospital admissions **increased** this week from 11.7 to 16 per day
Hospitalizations **increased** this week, now averaging 58

Source: VDH—May 2, 2022; created with Datawrapper
The number of COVID-19 patients in the ICU increased this week to an average of 8.
Vermont Hospital Metrics
(7-Day Averages)

Vermont Hospital Beds Available Since July 1, 2021

- 27 beds available on May 3, 2022

Vermont ICU Beds Available Since July 1, 2021

- 15 ICU beds available on May 3, 2022

Source: VDH—May 3, 2022; created with Datawrapper
Vermont Fatality Data
Vermont COVID-19 Fatalities

Source: VDH—May 2, 2022; created with Datawrapper
Monthly Covid-19 Deaths In Vermont

639 COVID-19 deaths since the start of the pandemic

Source: VDH—May 2, 2022; created with Datawrapper; deaths attributed to month in which death occurred rather than reported.
Regional Data
New England cases increased from 5,099 to **5,385 cases per day** (+5.6%) in the last week.

During the peak of the Omicron wave, New England recorded 38,000 cases per day.

Source: State Health Depts.—May 2, 2022; created with Datawrapper; (includes: CT, ME, MA, NH, RI & VT)
New England COVID-19 Case Trends

7-Day Average Cases Per 100K

Sources: State Health Depts.—May 2, 2022 (includes: CT, ME, MA, NH, RI & VT)

Maine data processing issues
New England COVID-19 Case Trends Since March 1st

7-Day Average Cases Per 100K

- Massachusetts
- Connecticut
- Rhode Island
- Maine
- New Hampshire
- Vermont

Maine data processing issues
Boston COVID-19 wastewater data started to trend down over the last week. 

Note: last week was school vacation so fewer people may have been in metro Boston.
National Data
Daily COVID-19 Cases per Million in US Regions

Calculated as a 7-day moving average. Definitions of North, Midwest, South, and West taken from the U.S. Census bureau.

Source: JHU—May 2, 2022; 7-day averages; created with Datawrapper
US COVID-19 Infection Confidence Intervals

Calculated as a 7-day mean. Inner and outer bands represent 50% and 95% confidence intervals, respectively.

Source: CDC—May 2, 2022; created with Datawrapper
US COVID-19 Death Confidence Intervals

Calculated as a 7-day mean. Inner and outer bands represent 50% and 95% confidence intervals, respectively.
RESTART VERMONT

Reopening Metrics

1. Syndromic Surveillance (*retired*)
2. Viral Growth & Reproductive Rates
3. Percentage of New Positive Tests
4. Hospital & Critical Care Bed Capacity
5. Testing Volume
Viral Growth & Reproductive Rates

Source: Vermont Department of Health
Test Positivity

Source: Vermont Department of Health; 7-day positivity calculated as positive tests last seven days/tests last seven days
Vermont Testing

Source: Vermont Department of Health; results reported to VDH daily