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7 to 9 weeks after initial rise in cases
Change in National Weekly Case Growth

Cases increasing

Cases decreasing

Source: CDC, NYT, and Covid Tracking Project
Change in Northeast Regional Weekly Case Growth

Source: State Health Departments & CTV National News (Quebec)
Change in Vermont Weekly Case Growth

Source: State Health Departments & CTV National News (Quebec)
Vermont Case Data
Vermont COVID-19 Cases per 100K (14-Day Average)

Source: Vermont Department of Health—August 16, 2021; “fully vaccinated” defined as 14 days following final dose
Covid-19 Among Fully Vaccinated People in Vermont

From January 1, 2021 to August 13, 2021

Of 418,230 **Fully Vaccinated** Vermonters:

- **630 tested positive** (0.15%)
- **18 hospitalized for Covid-19** (0.004%)
- **8 died due to Covid-19** (0.002%)

Source: Vermont Department of Health and CDC; not to scale
Infections, Hospitalizations, & Deaths by Percentage of State Population Vaccinated

- <40% Started Vaccination
- 40-60% Started Vaccination
- 60%+ Started Vaccination
- Vermont

Infections per 100K
Hospitalizations per 100K
Deaths per 100K

Source: Covid Act Now—August 16, 2021; Measures last 14 days; 16 states <40%, 17 states 40-60%, 20 states 60%+ vaccination
Comparing Vermont Case Increases with Hospitalizations

Cases (7-Day Average)  Hospitalizations (7-Day Average)

Initial Case Increase (March 29, 2020 to April 30, 2020)

Winter Case Increase (November 1, 2020 to December 15, 2020)

Current Case Increase (July 1, 2021 to August 9, 2021)

Source: Vermont Department of Health—August 16, 2021
Vermont experiencing steep recent case growth
Age of Infected Vermonters

Median age of COVID positive individuals in VT over the last 14 days.

Source: VDH—August 16, 2021
Vermont Case Rate & Vaccination by Age Band

- **New Infections per 100K (14-Day Average)**
- **Percent Received First Vaccine Dose**

**Ages 16 to 29**

**Ages 30 to 39**

**Ages 40 to 49**

**Ages 50 to 59**

**Ages 60 to 64**

**Ages 65 to 69**

**Ages 70 to 74**

**Ages 75+**

Source: VDH—August 16, 2021
Covid-19 case rates rose 41 percent this past week.

Largest increases in Addison, Bennington, Chittenden, and Grand Isle Counties.
Active COVID Cases per Million in Vermont Regions

For the purpose of this analysis, Vermont has been split into four regions: **Burlington Metro** (Chittenden, Franklin, Grand Isle), **Northeast Kingdom** (Caledonia, Orleans, Essex), **Central** (Lamoille, Washington, Addison, Orange), and **Southern** (Rutland, Windsor, Bennington, Windham).
New forecast continues to predict low case counts over the next two weeks.
Vermont Hospitalization Data
Statewide Covid-19 Hospitalizations

Hospitalization rate is increasing, but Vermont continues to have the fewest hospitalizations per capita nationally

On Average, 71% of hospitalizations among those not fully vaccinated

Source: Vermont Department of Health—August 16, 2021
Vermont Fatality Data
Vermont Covid-19 Deaths by Week

Source: Vermont Department of Health—August 17, 2021 (week ending)
Vermont Covid-19 Deaths by Month

Source: Vermont Department of Health—August 16, 2021; deaths attributed to month in which death occurred rather than reported
VT Weekly COVID-19 Deaths Forecast

Calculated as a 7-day sum. Gray bands represent 50% and 95% confidence intervals. Since projections are only released once a week, the actual number may appear to over or undershoot the forecast.

Source: Centers for Disease Control and Prevention—August 16, 2021
Vermont Vaccination Data
Vermont Vaccination

85.1% Of Eligible Vermonters Have Started Vaccination

468,620 Vermonters with at Least 1 Dose

+2,825 Since Last Week

82,330 Eligible Vermonters still to be vaccinated

Source: CDC—August 16, 2021
## Vermont CDC Vaccine Scorecard

<table>
<thead>
<tr>
<th>Metric</th>
<th>Figure</th>
<th>State Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doses Administered per 100K</td>
<td>137,995</td>
<td>1</td>
</tr>
<tr>
<td>% At Least 1 Dose (Eligible Population)</td>
<td>85.1%</td>
<td>1</td>
</tr>
<tr>
<td>% Fully Vaccinated (Eligible Population)</td>
<td>75.4%</td>
<td>1</td>
</tr>
<tr>
<td>% At Least 1 Dose (Full Population)</td>
<td>75.1%</td>
<td>1</td>
</tr>
<tr>
<td>% Fully Vaccinated (Full Population)</td>
<td>67.1%</td>
<td>1</td>
</tr>
<tr>
<td>% Fully Vaccinated (65 &amp; Over)</td>
<td>93.6%</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: CDC—August 16, 2021
Vermont is 1st in the Country in Vaccines Administered Per 100K

Source: CDC—August 16, 2021
85.1% of Eligible Vermonters Have Started Vaccination, Placing Vermont 1\textsuperscript{st} Nationally

Source: CDC—August 16, 2021
76.0% of Eligible Vermonters Are Fully Vaccinated, Placing Vermont 1st Nationally

Source: CDC—August 16, 2021
75.1% of Vermonters Have Started Vaccination, Placing Vermont 1st Nationally

Source: CDC—August 16, 2021
67.1% of Vermonters Fully Vaccinated, Placing Vermont 1st Nationally

Source: CDC—August 16, 2021
93.6% of 65 & Over Vermonters Fully Vaccinated, Placing Vermont 1st Nationally

Source: CDC—August 16, 2021
US Census Region Case Rate & Vaccination

New Infections per 100K (14-Day Average)

Percent Received First Vaccine Dose

Northeast

South

Midwest

West

Source: Covid Act Now—August 16, 2021

35
Source: Covid Act Now—August 16, 2021
Vermonters Initiating Vaccination by Day

New Vaccinations (7-Day Average)

Vermonters beginning vaccination increased 1.9% in the last week

Source: CDC—August 16, 2021
Vermont Vaccination Progress
By Age Band

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Partially Vaccinated</th>
<th>Fully Vaccinated</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-15</td>
<td>8.52%</td>
<td>68.02%</td>
</tr>
<tr>
<td>16-17</td>
<td>6.61%</td>
<td>74.15%</td>
</tr>
<tr>
<td>18-21</td>
<td>6.90%</td>
<td>52.08%</td>
</tr>
<tr>
<td>22-29</td>
<td>7.14%</td>
<td>64.05%</td>
</tr>
<tr>
<td>30-39</td>
<td>7.82%</td>
<td>80.43%</td>
</tr>
<tr>
<td>40-49</td>
<td>6.53%</td>
<td>80.46%</td>
</tr>
<tr>
<td>50-59</td>
<td>5.56%</td>
<td>83.62%</td>
</tr>
<tr>
<td>60-64</td>
<td>5.48%</td>
<td>89.68%</td>
</tr>
<tr>
<td>65-69</td>
<td>5.48%</td>
<td>95.69%</td>
</tr>
<tr>
<td>70-74</td>
<td>100%*</td>
<td>100%*</td>
</tr>
<tr>
<td>75+</td>
<td>3.41%</td>
<td>3.59%</td>
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<tr>
<td></td>
<td></td>
<td>95.94%</td>
</tr>
</tbody>
</table>

Source: Vermont Dept. of Health—August 17, 2021; *based on 2019 census estimates
Regional Data
Regional Cases

19.3% Increase in New Cases

New Cases August 3rd to August 9th

New Cases August 10th to August 16th

Sources: State Health Departments & CTV National News (Quebec)
Weekly Regional Cases

Sources: State Health Departments & CTV National News (Quebec) (includes: CT, ME, MA, NH, NY, QC, RI & VT)
Regional Hospitalizations

Trending Up
+32.3% Increase
Over last 7 days

Source: Covid Act Now (7-Day Average in CT, ME, MA, NH, NY, RI & VT)—August 16, 2021
Regional Deaths

Trending Down
-101.2% Increase
Over last 14 days

Source: CDC (7-Day Average in CT, ME, MA, NH, NY, RI & VT)—August 13, 2021
Active Cases per Million

Last Week
August 10th

Today
August 17th

Source: Johns Hopkins University—August 16, 2021
National Data
National COVID-19 Cases

+12.4% Increase
Over the last 7 days

138,808
7-Day Average

Source: Covid Tracking Project; NYT & CDC—August 16, 2021
Beginning of Delta Spread
June 22

Source: Johns Hopkins University
Active Cases per Million

Delta Spread
July 20

Source: Johns Hopkins University
Active Cases per Million

Source: Johns Hopkins University
Active Cases per Million

0  5,000  25,000 +

Delta Spread
August 3

Source: Johns Hopkins University
Delta Spread
August 16

Source: Johns Hopkins University
US Weekly COVID-19 Infections Forecast

Calculated as a 7-day sum. Gray bands represent 50% and 95% confidence intervals. Since projections are only released once a week, the actual number may appear to over or undershoot the forecast.
US Weekly COVID-19 Deaths Forecast

Calculated as a 7-day sum. Gray bands represent 50% and 95% confidence intervals. Since projections are only released once a week, the actual number may appear to over or undershoot the forecast.
National COVID-19 Hospitalizations

+25.36% Increase
Over the last 7 days

79,771
7-Day Average

Source: Covid Tracking Project; NYT & CDC—August 16, 2021
National COVID-19 Deaths

+8.1% Increase
Over the last 7 days

Source: Covid Tracking Project; NYT & CDC—August 16, 2021
Canadian Covid-19 Trends
Canadian COVID Trends

% With At Least 1 Dose: 72.6%
% Fully Vaccinated: 63.9%
7-Day Case Rate: Up 66.4%
7-Day Hospital Rate: Up 16.6%
7-Day Fatality Rate: Down 23.8%

Sources: Johns Hopkins University—August 16, 2021
Canadian Province Vaccination Progress

Percent Eligible (12+) with at least 1 dose

Map: DFR Modeling Team • Source: CTV National News • Created with Datawrapper
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
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

Vermont Department of Health no longer updating syndromic surveillance on a weekly basis.
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
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
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
Vermont Testing

7-Day Rolling Test Average

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