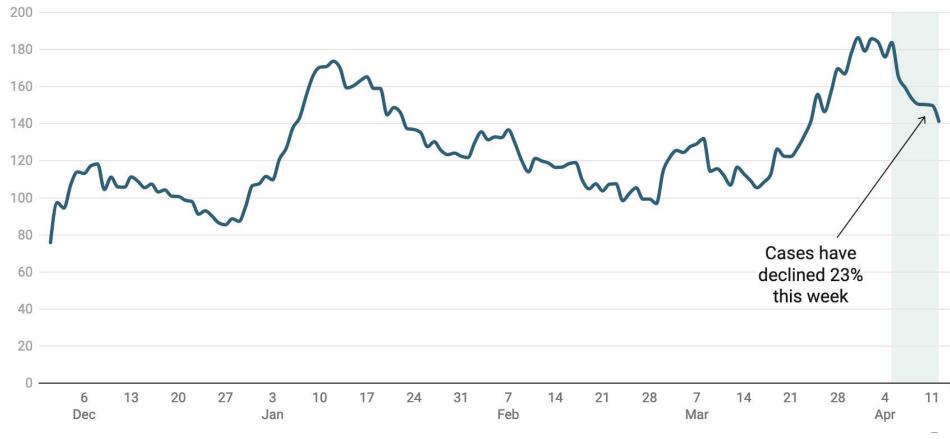
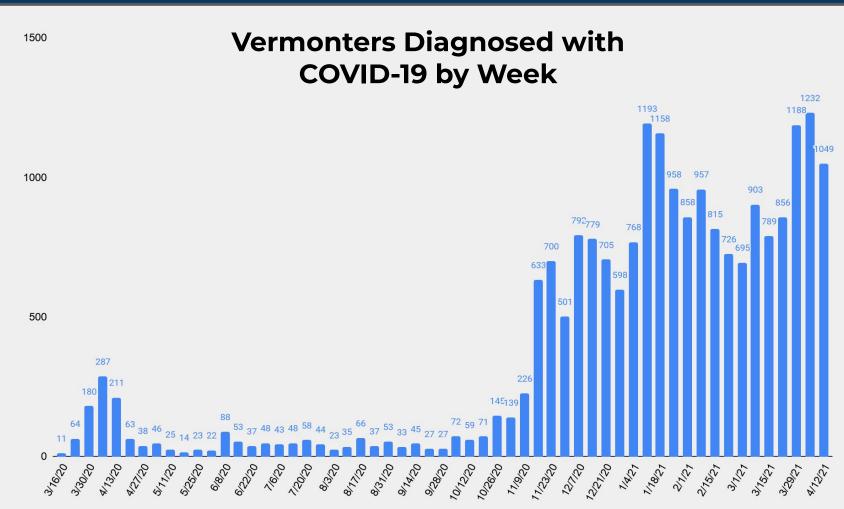
COVID-19 Modeling April 13, 2021

Presentation available at: dfr.vermont.gov

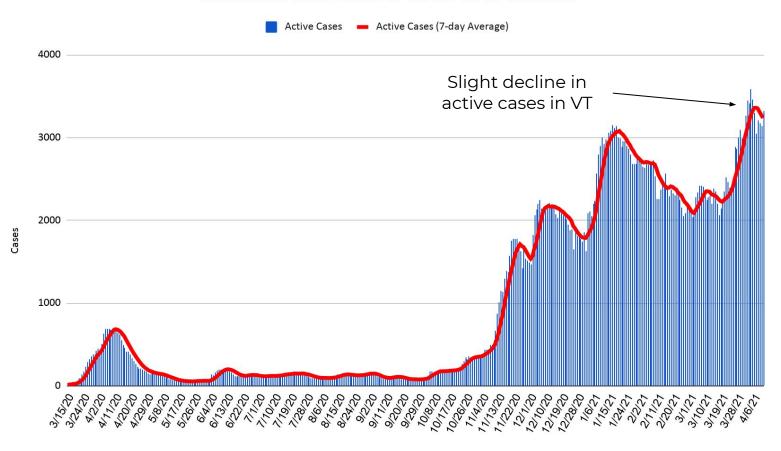
COVID Infections per 100K in Vermont (7-Day Average)



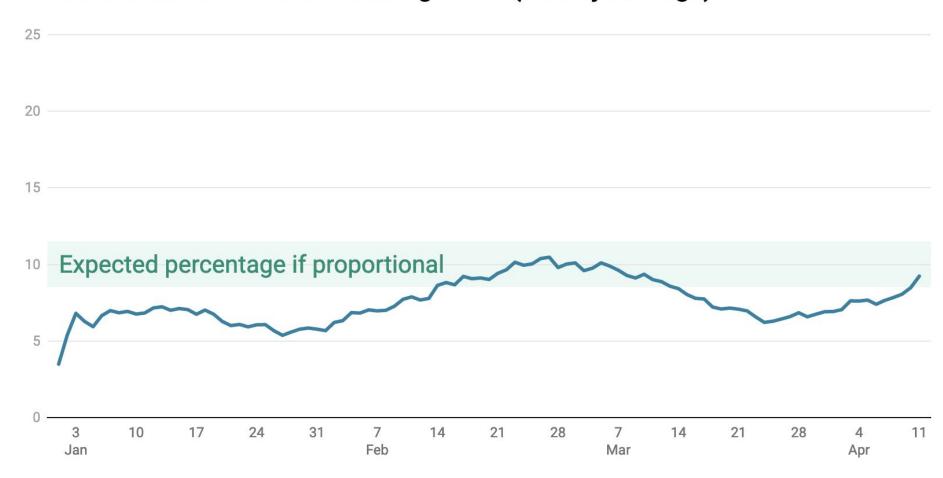
Source: Vermont Department of Health—April 13, 2021



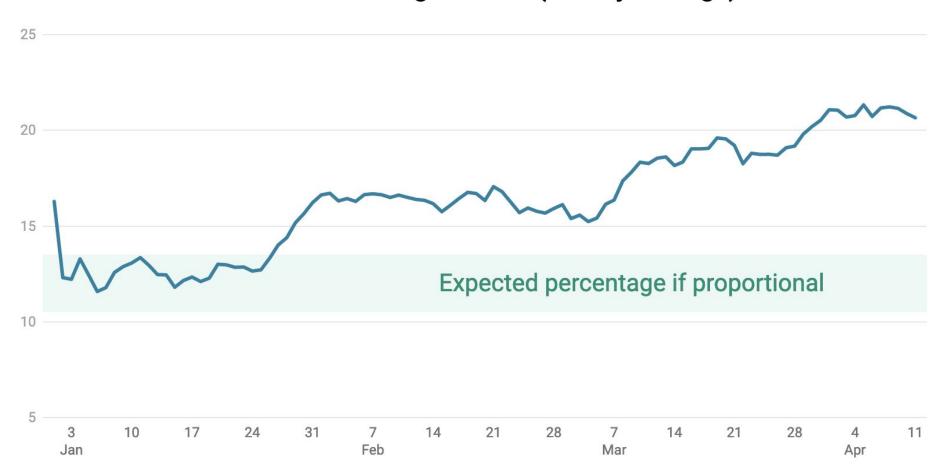




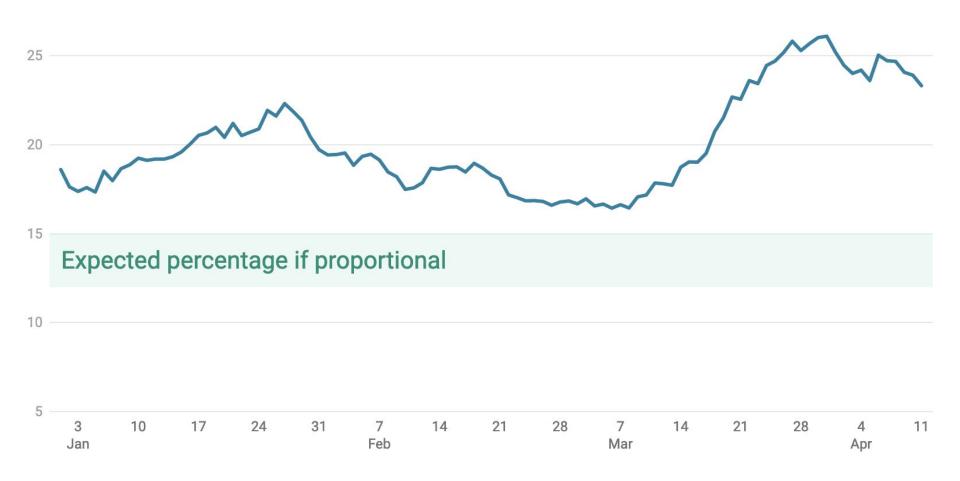
% of Vermont's COVID Infections Aged 0-9 (14-Day Average)



% of Vermont's COVID Infections Aged 10-19 (14-Day Average)

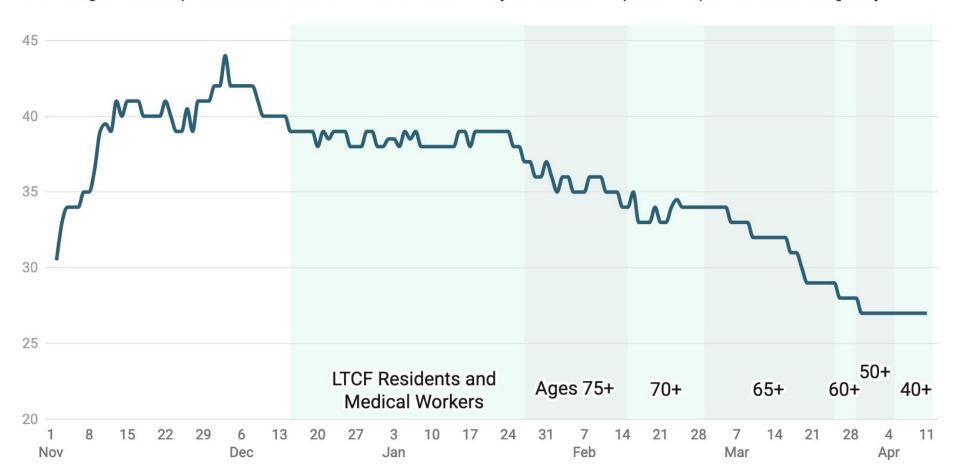


% of Vermont's COVID Infections Aged 20-29 (14-Day Average)

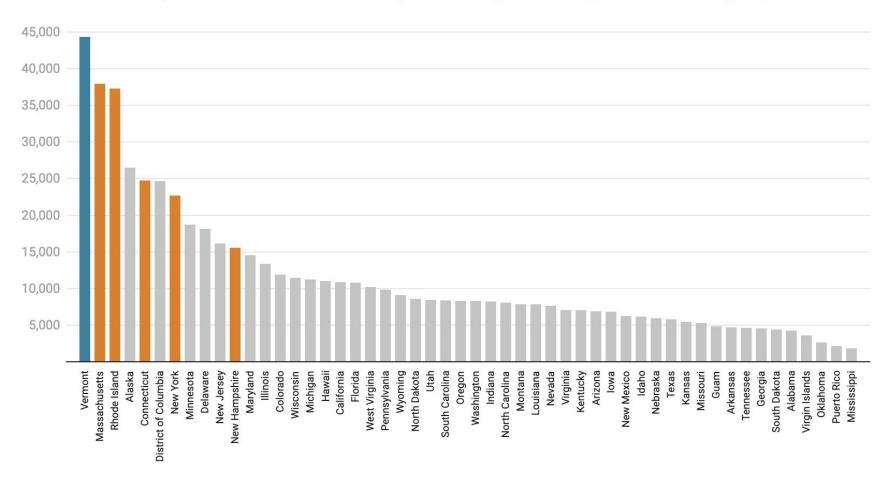


Age of Infected Vermonters Decreasing

Median age of COVID positive individuals in VT over the last 14 days. Green bars represent expanded vaccine eligibility.

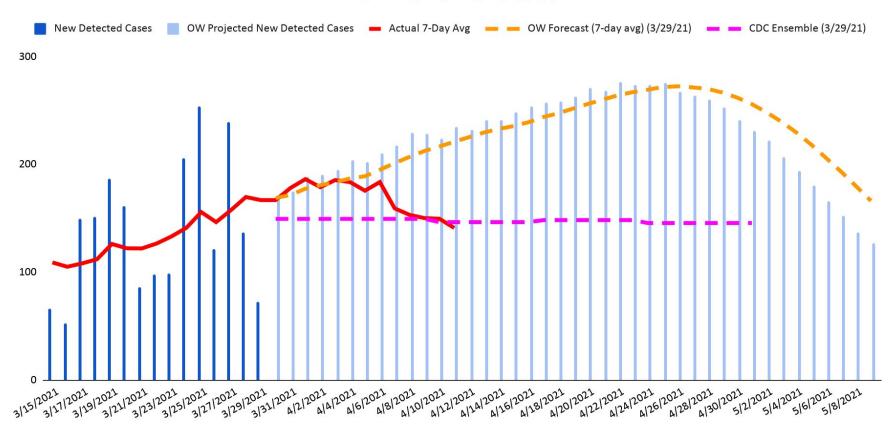


COVID Tests per 100K in Last 30 Days Among Vermont and its Neighbors

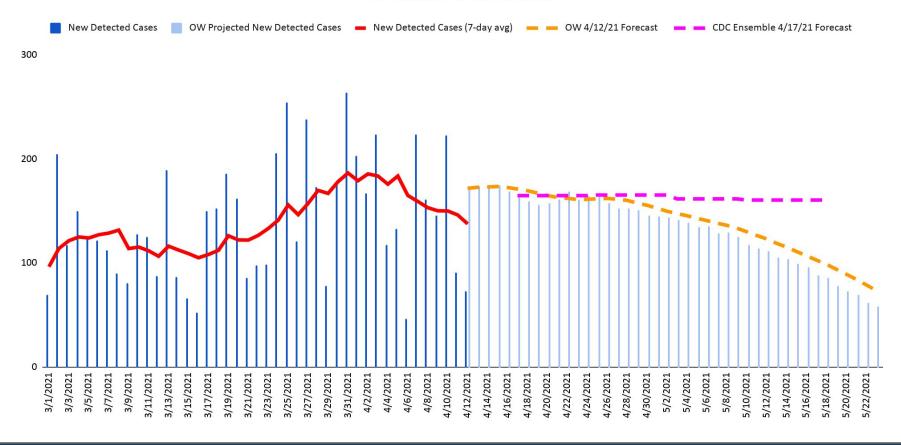


Note: Maine and Ohio do not report testing data to the CDC

Vermont Forecast

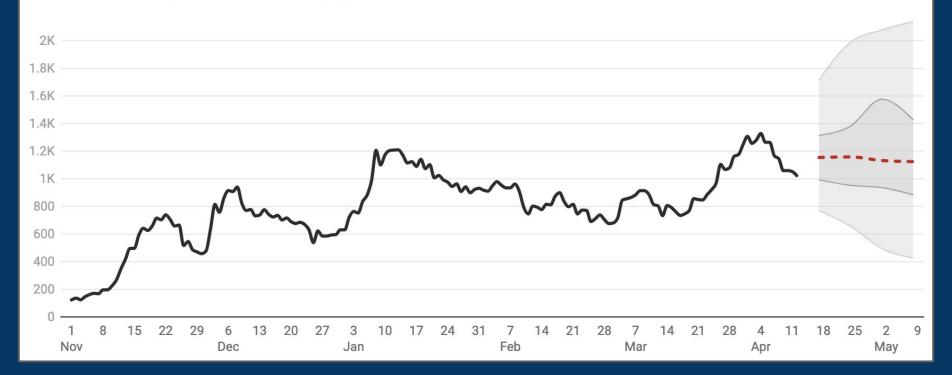


Vermont Forecast



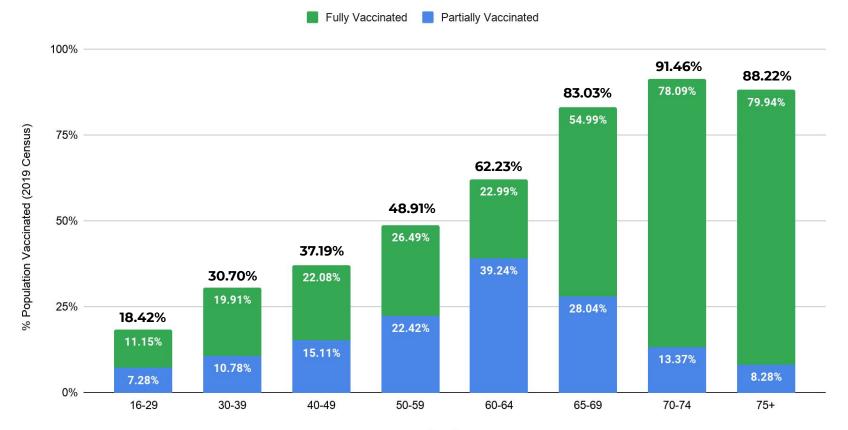
Vermont Weekly COVID-19 Infections Forecast

Calculated as the 7-day sum of new infections. 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.



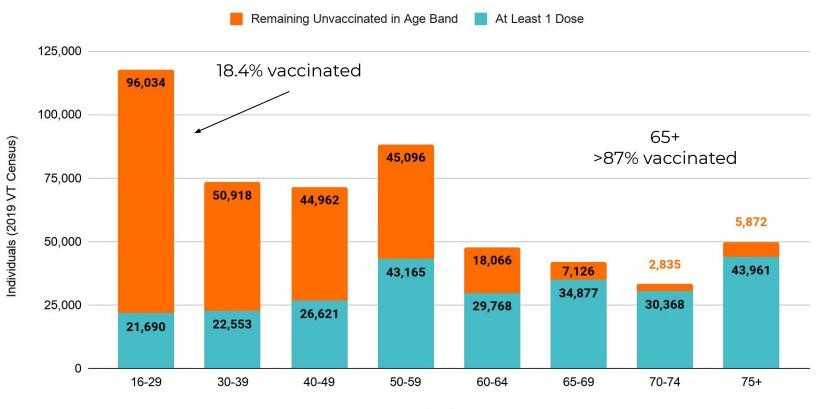
Vermont Vaccination Progress

By Age Band



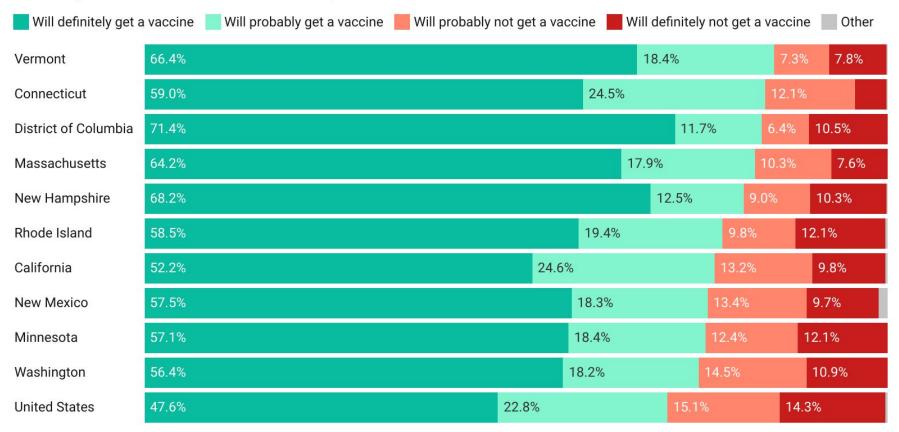
Vaccinated & Unvaccinated Vermonters

By Age Band



U.S. COVID-19 Vaccine Willingness

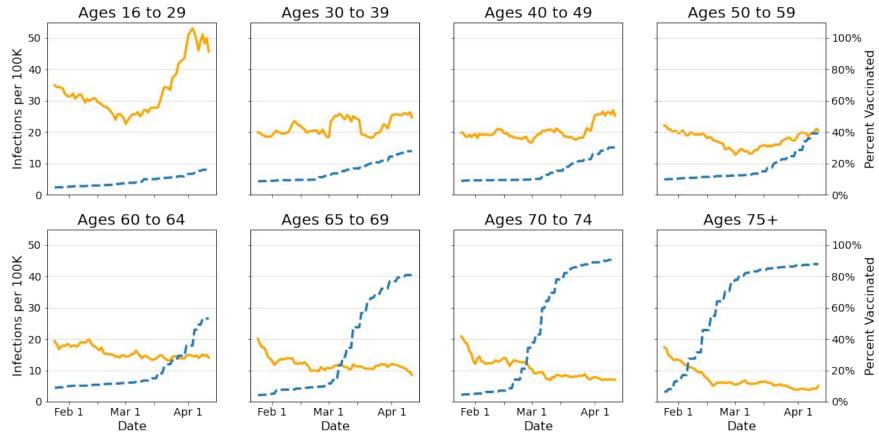
This analysis excludes those who have already received a vaccine.



Vermont Case Rate & Vaccination by Age Band

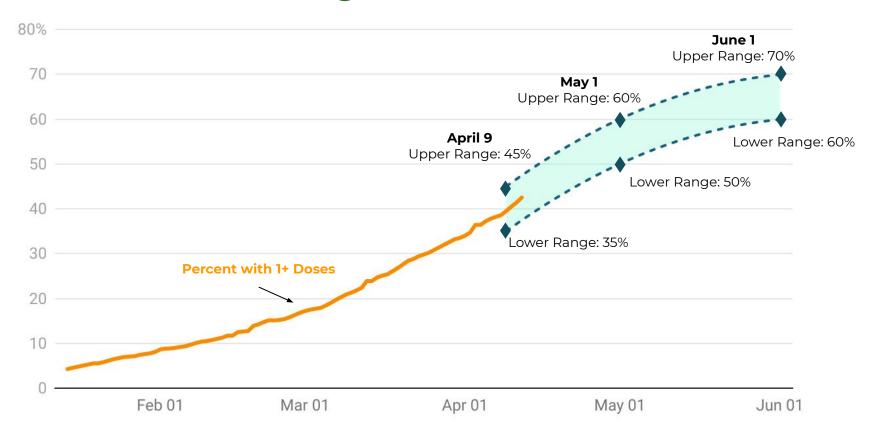
New Infections per 100K (14-Day Average)

Percent Received First Vaccine Dose

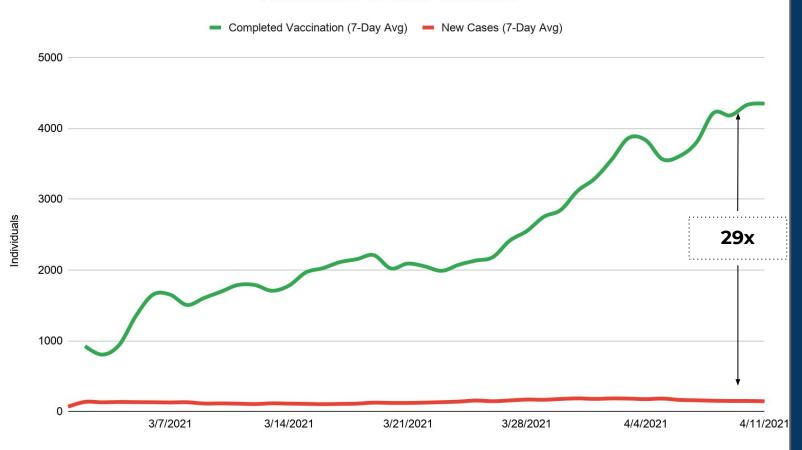


Source: VDH - April 11, 2021

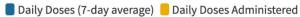
Vermont Forward Progress to Goal

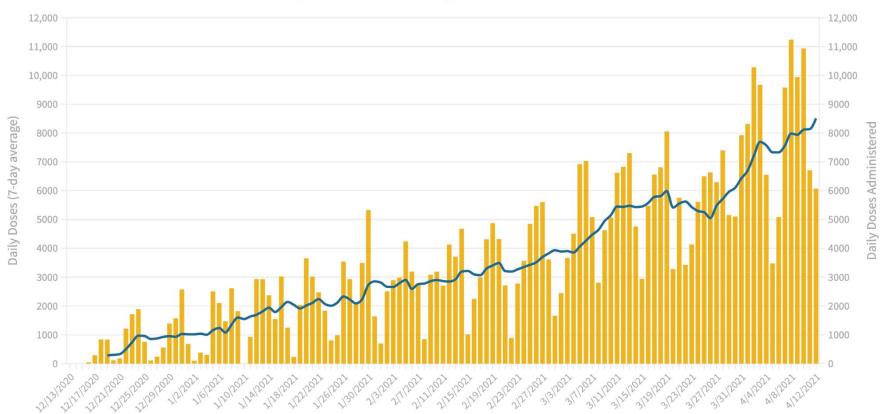


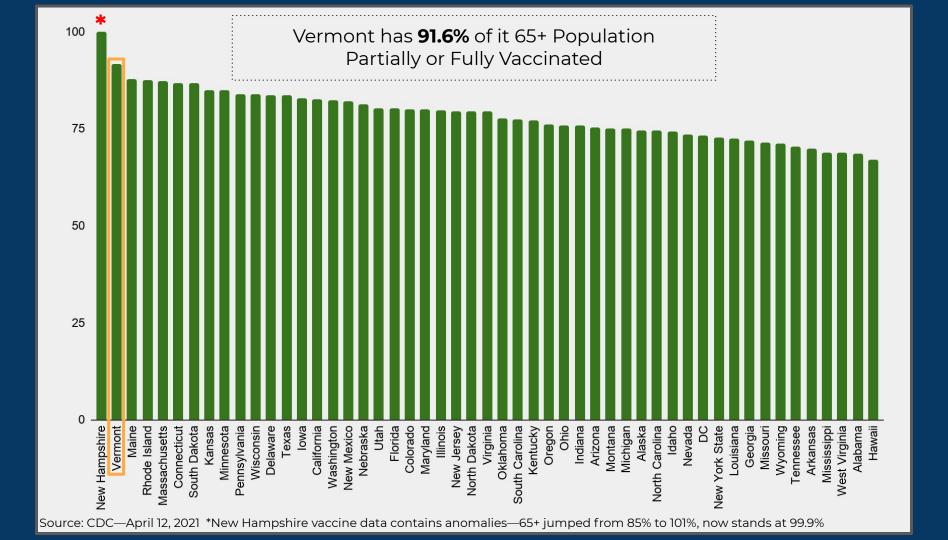
Vaccination vs New Infection

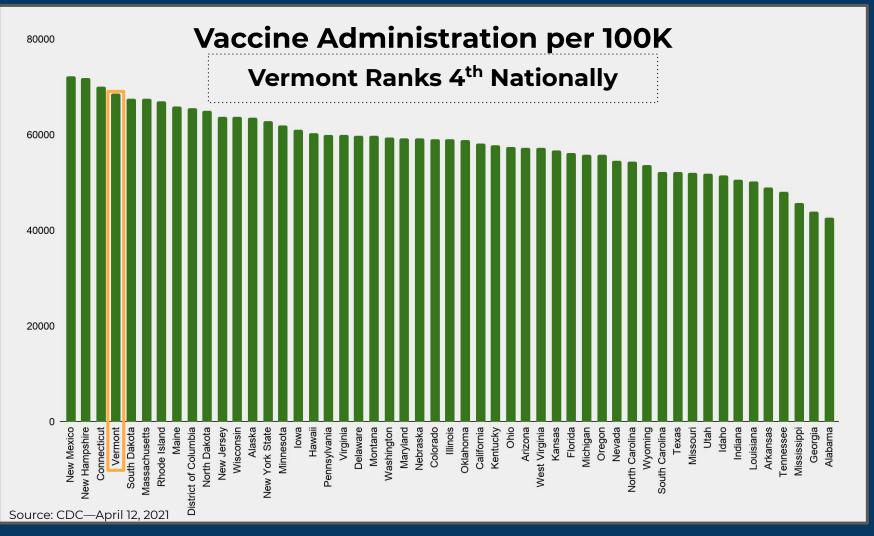


COVID-19 Vaccinations in Vermont

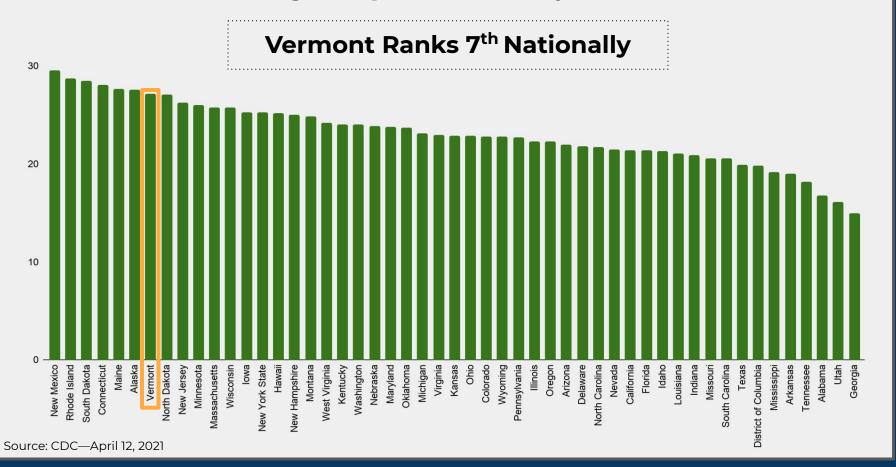








Percentage Population Fully Vaccinated

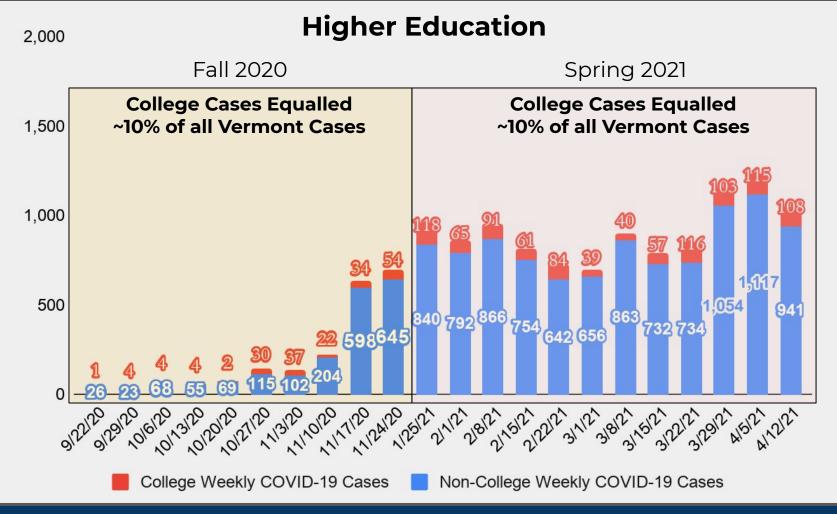


Active Outbreaks in Long Term Care Facilities

January 4, 2021: Avg LTCF Outbreak ~38 Cases

Facility Name	Total COVID-19 Cases
River's Edge Community Care Home, Bennington	8

Source: Vermont Department of Health—April 12, 2021 (reporting Monday through previous Sunday); 'Active' defined as less than 28 days since most recent case's specimen collection date or illness start date (whichever is later); privacy suppressions include facility w/ <25 staff and residents and/or >75% of facility infected or fewer than 5 active cases.



Vermont Weekly Cases by County (per 100,000)

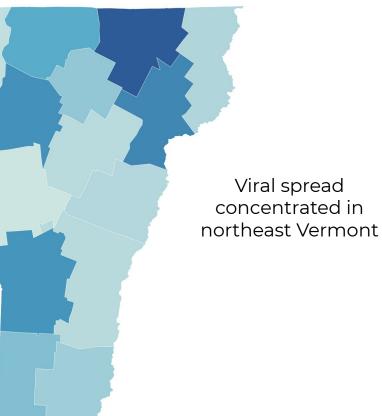
Results Reported March 30 to April 5

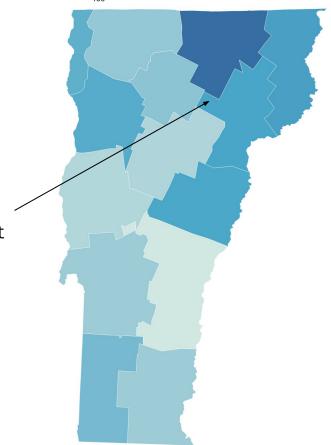


Vermont Weekly Cases by County (per 100,000)

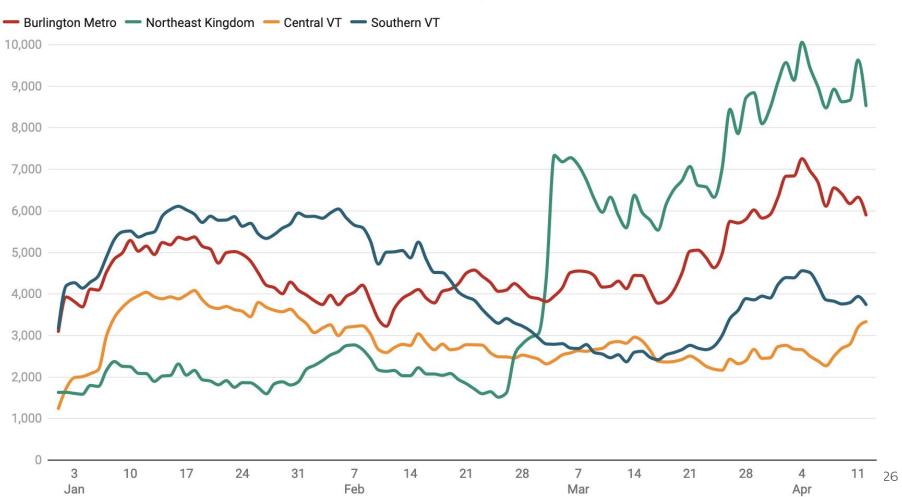
Results Reported April 6 to April 12





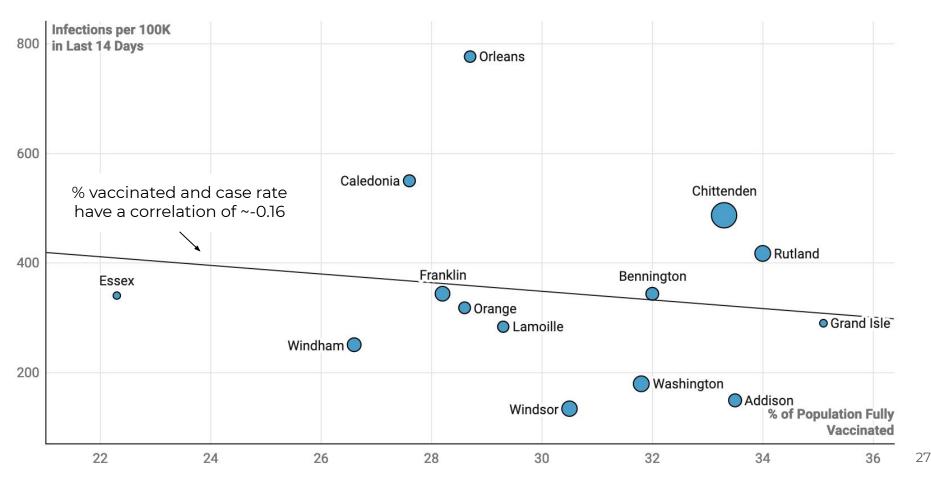


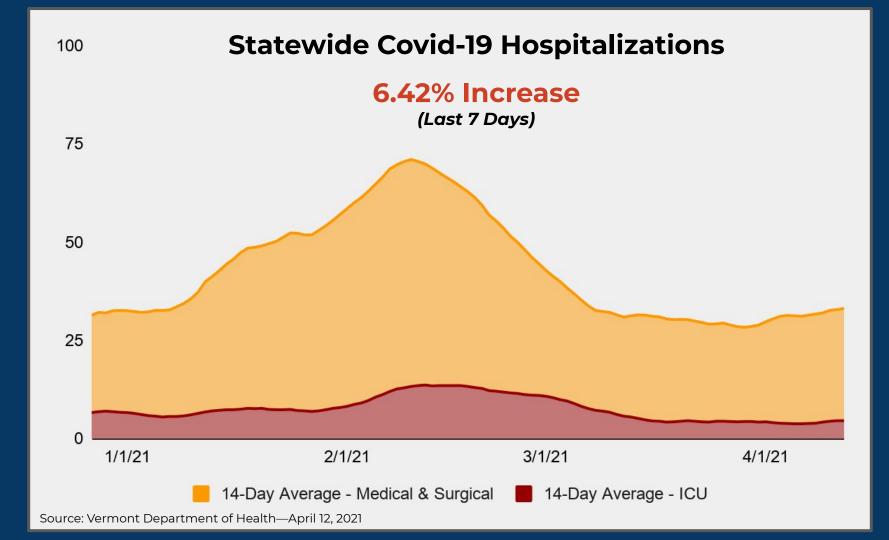
Active COVID Cases per Million in Vermont Regions



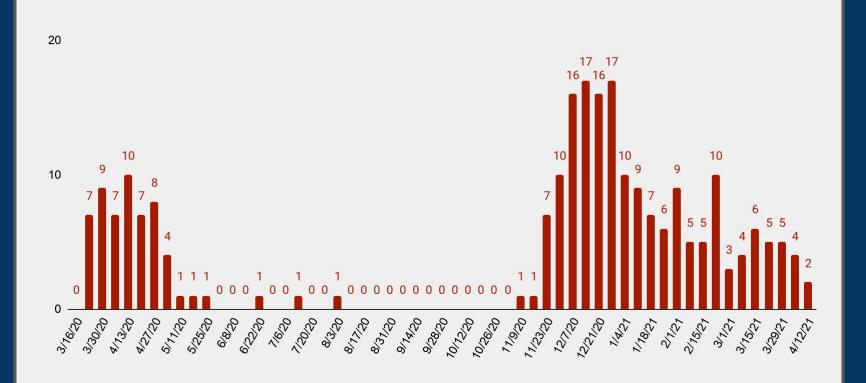
Vaccinations & Case Rates in Vermont Counties

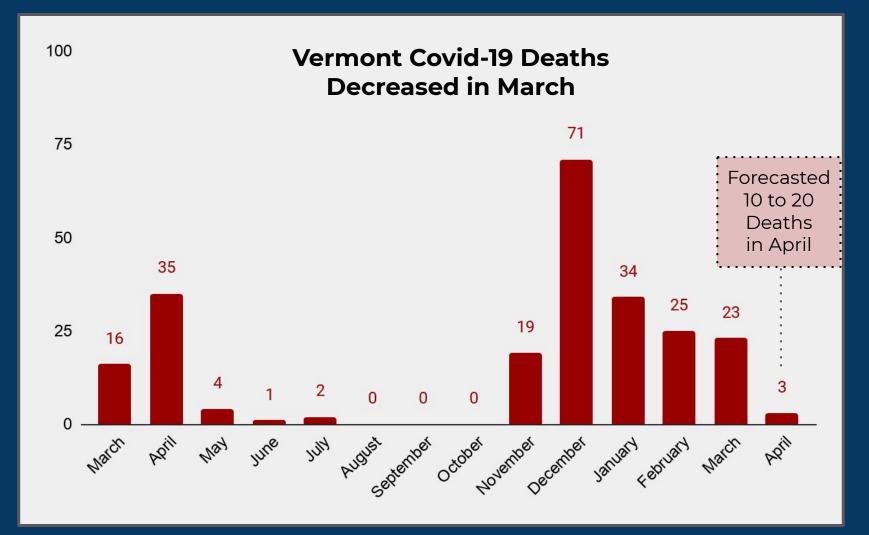
Tracking association between vaccinations and new infections in Vermont, current correlation weak given % population now fully vaccinated





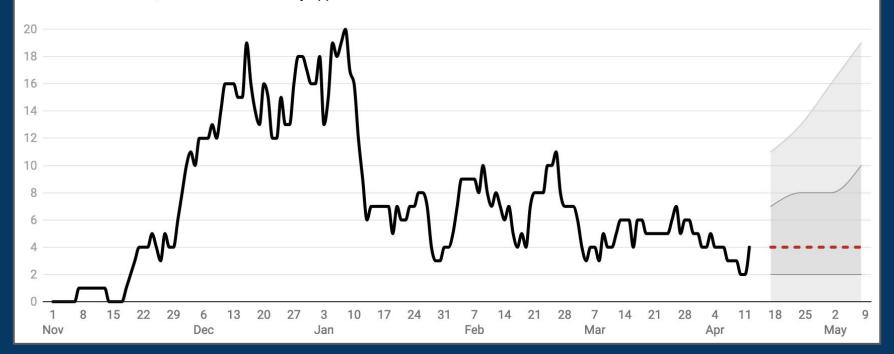
Vermont Covid-19 Deaths by Week

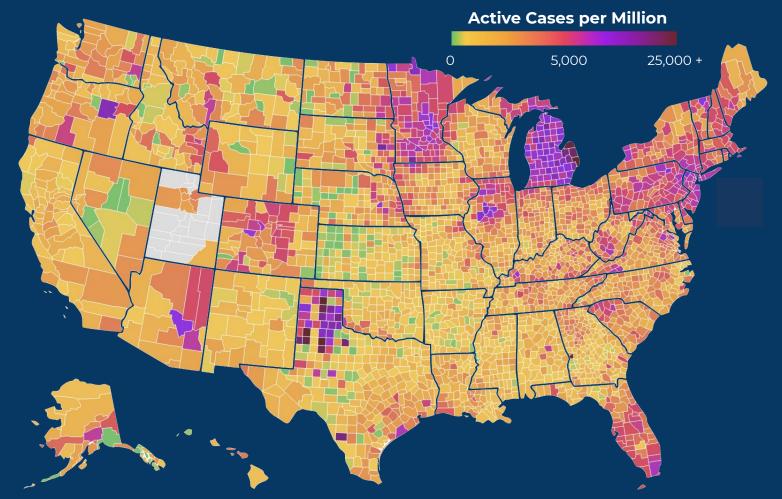




Vermont Weekly COVID-19 Deaths Forecast

Calculated as the 7-day sum of new infections. 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.



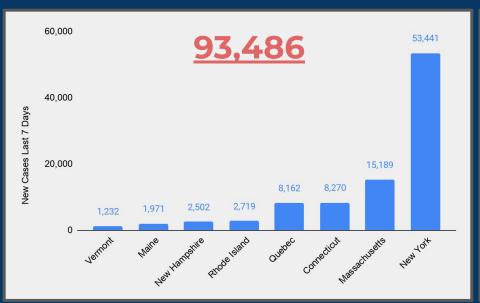


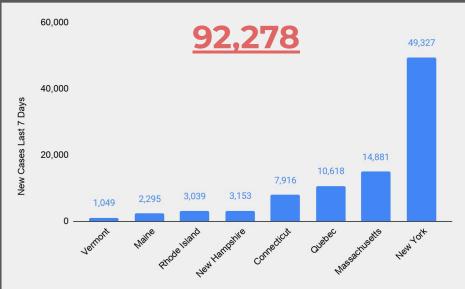
Regional Cases

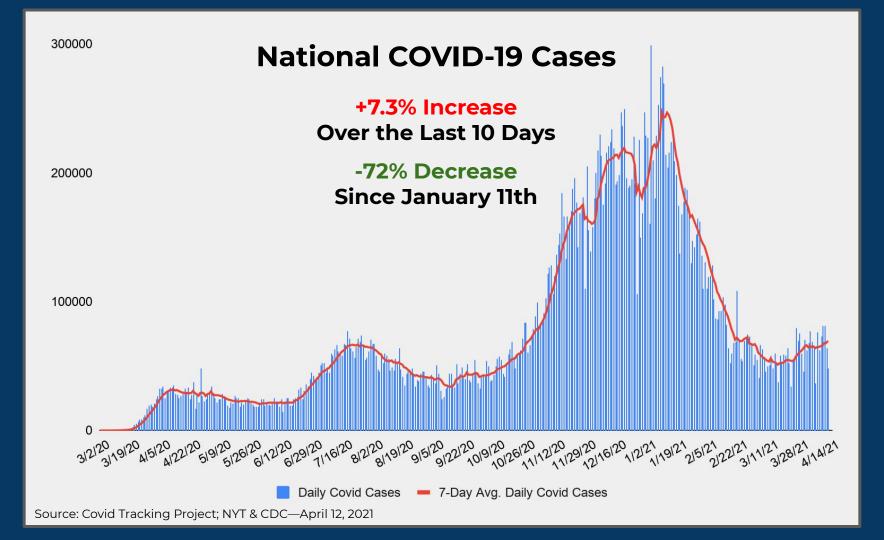
1.29% Decrease in New Cases

New Cases March 30th to April 5th

New Cases April 6th to April 12

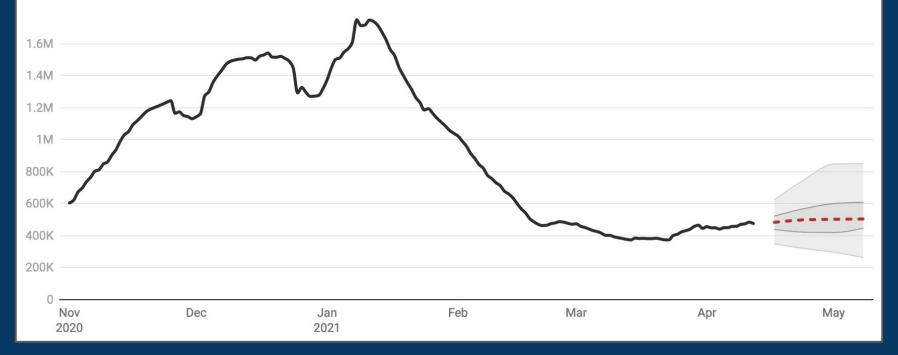




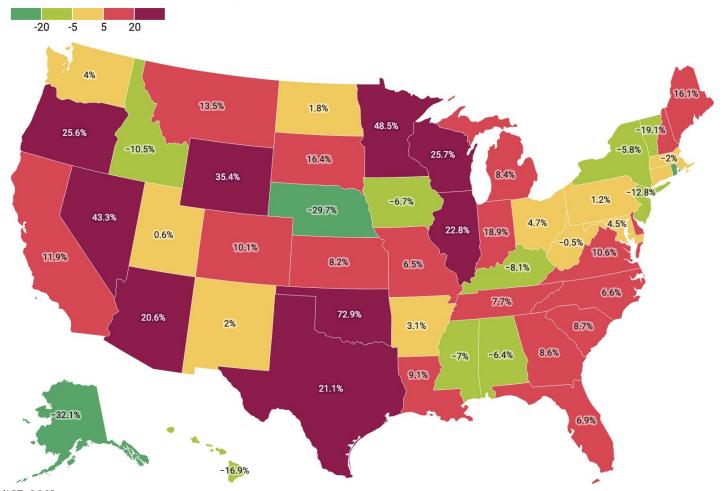


US Weekly COVID-19 Infections Forecast

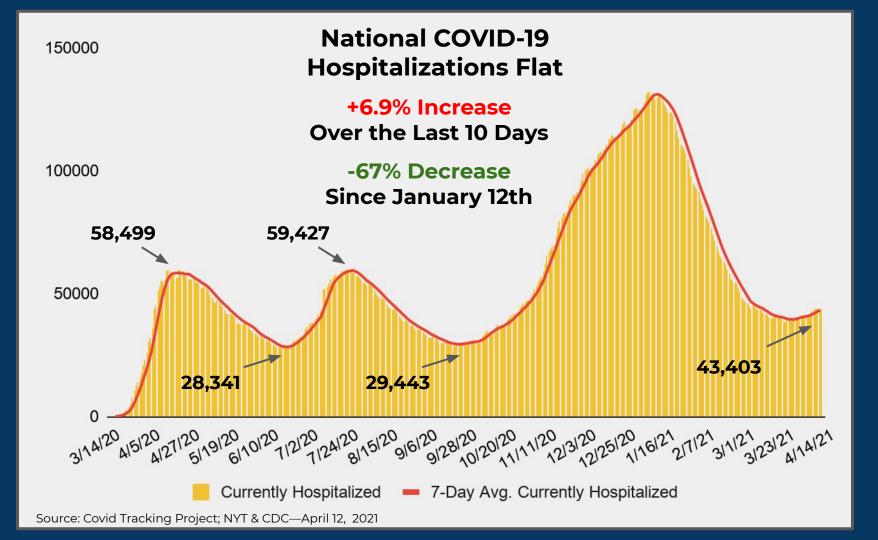
Calculated as the 7-day sum of new infections. Gray bands represent 50% and 95% confidence intervals. Since projections are only released once a week, the actual number may appear to over or undershoot the forecast.

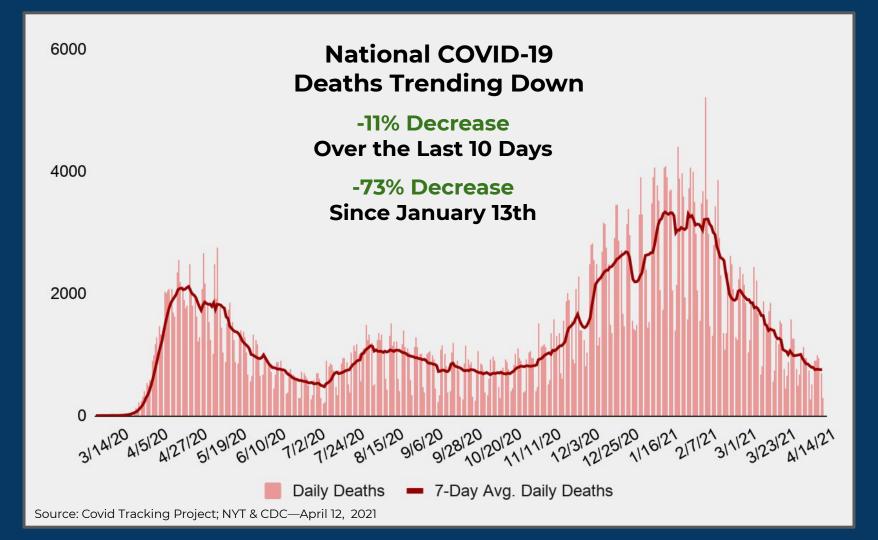


Percent Change in Weekly COVID-19 Infections



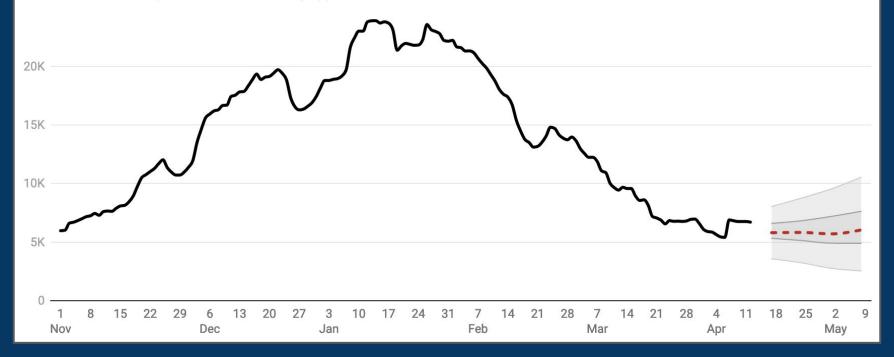
Source: JHU—April 13, 2021



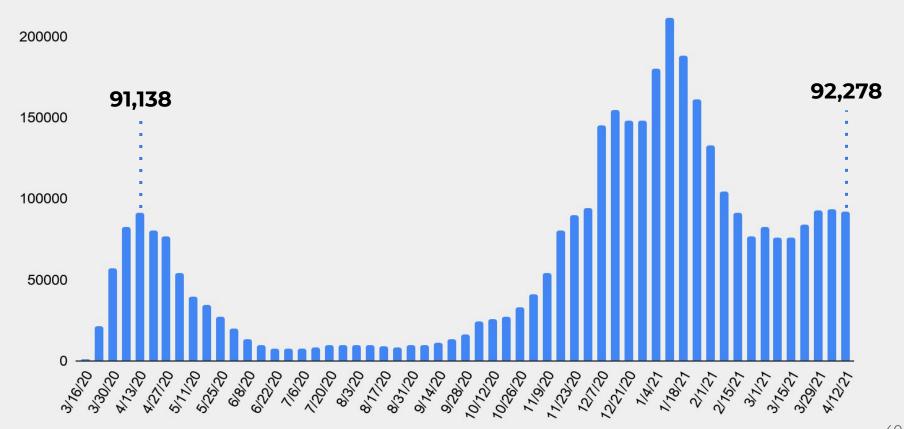


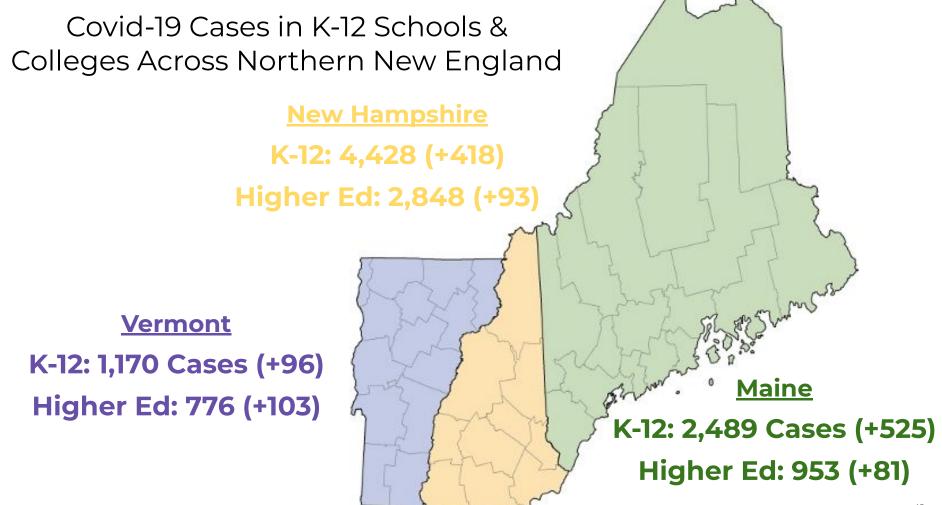
US Weekly COVID-19 Deaths Forecast

Calculated as the 7-day sum of new infections. 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.

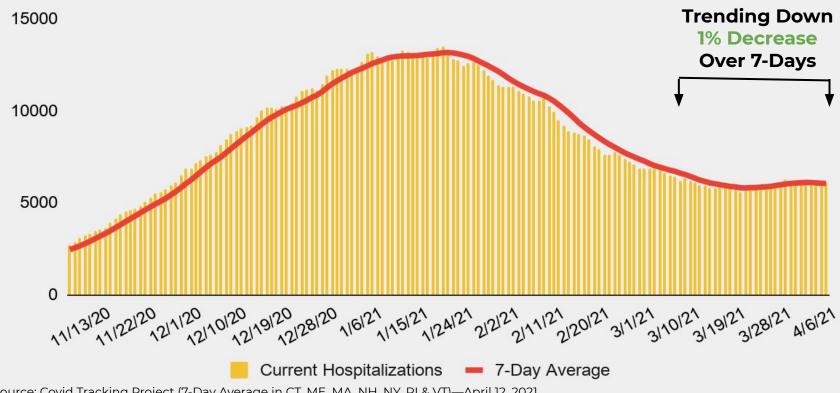


Regional Weekly Cases









Source: Covid Tracking Project (7-Day Average in CT, ME, MA, NH, NY, RI & VT)—April 12, 2021

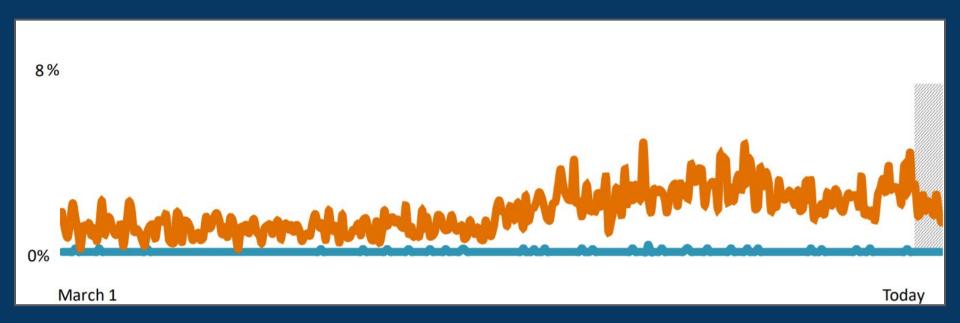
RESTART VERMONT

Reopening Metrics

- 1. Syndromic Surveillance
- 2. Viral Growth & Reproductive Rates
- 3. Percentage of New Positive Tests
- 4. Hospital & Critical Care Bed Capacity

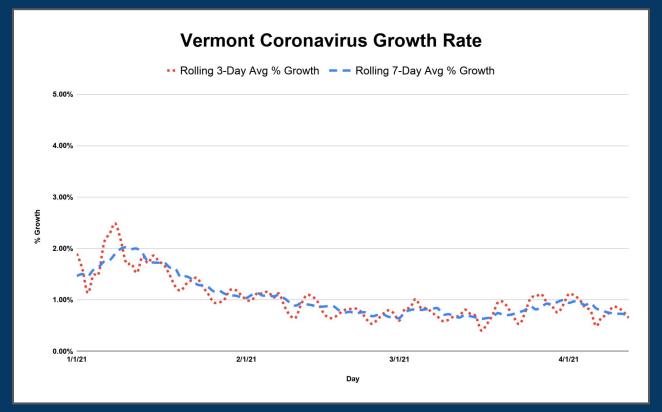
Data Point 1: Syndromic Surveillance

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



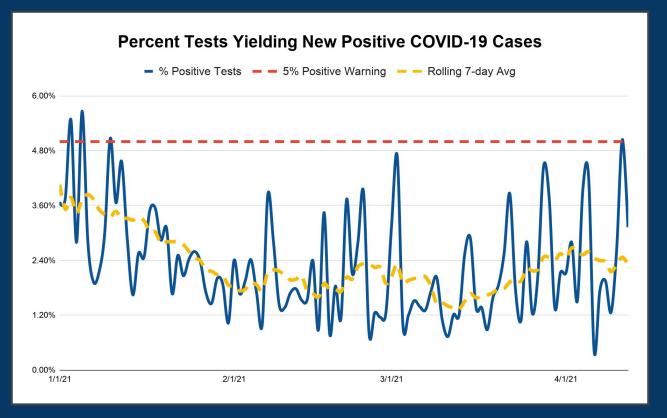
Data Point 2: Viral Growth and Reproductive Rates

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



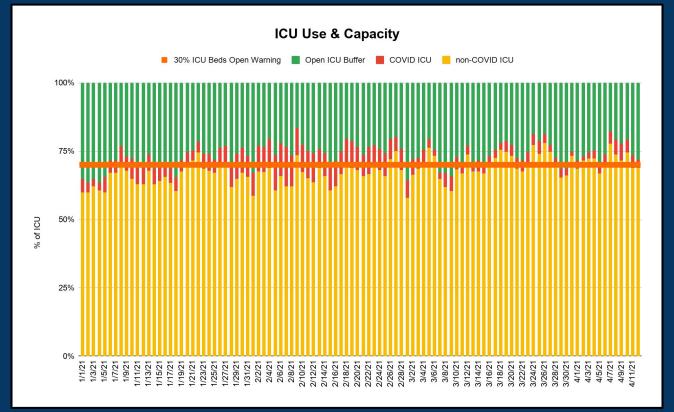
Data Point 3: Percentage of New Positive Tests

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



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%



Vermont Testing

