COVID-19 Modeling March 29, 2022

Presentation available at: dfr.vermont.gov

Overview

Cases of COVID-19 in Vermont remain stable, with confirmed cases averaging 131 per day over the last week. Reported infections remain flat across age groups.

Hospital admissions and inpatient counts declined this week. The number of Vermonters hospitalized for COVID-19 is down 87% from the Omicron peak, and those requiring ICU care has decreased 94%. Today, Vermont is reporting no individuals in the ICU for COVID-19. Hospitalizations for the virus continue to be most common among unvaccinated and older Vermonters.

COVID-19 fatalities have fallen this month, with 13 confirmed COVID-19 deaths thus far in March, down from 59 last month. March is on track to record the lowest fatality count since July of 2021. A total of 617 Vermonters have been lost to COVID-19.

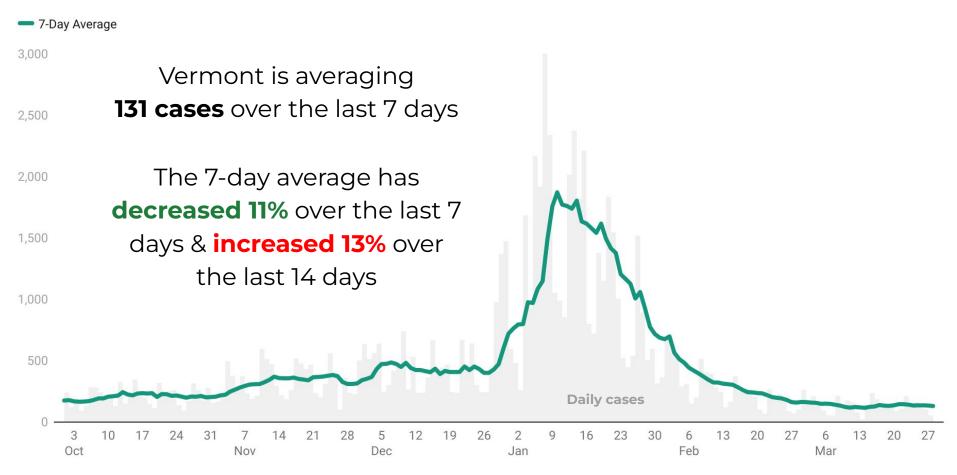
While the spread of the Omicron BA.2 variant and rise in international infections remain a cause for concern, cases across New England are rising slowly, increasing 11% over the past week, with growth concentrated in Massachusetts and Connecticut. <u>According to the CDC</u>, the BA.2 subvariant is now the predominant form of COVID-19 in the United States. The subvariant is more prevalent in New England, where it makes up more than an estimated 70% of cases.

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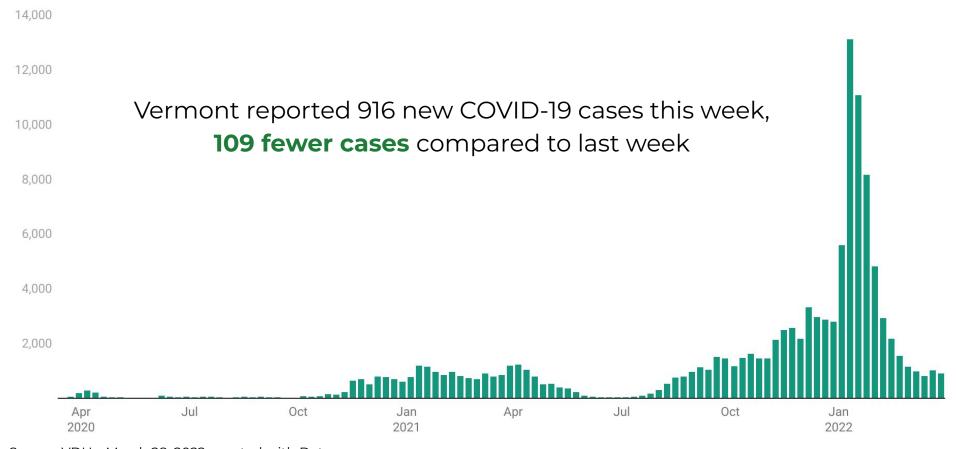
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Vermont Case Data

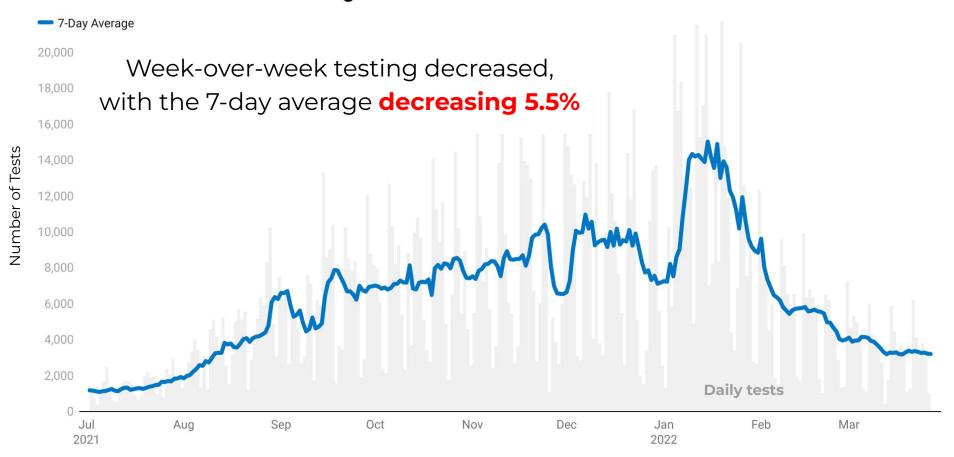
Vermont New COVID-19 Cases



Vermont New Weekly COVID-19



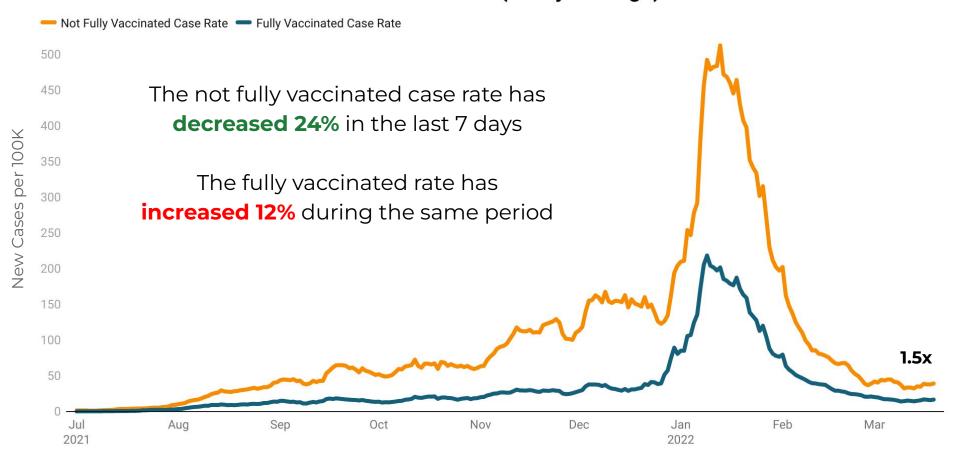
Vermont COVID-19 PCR Testing

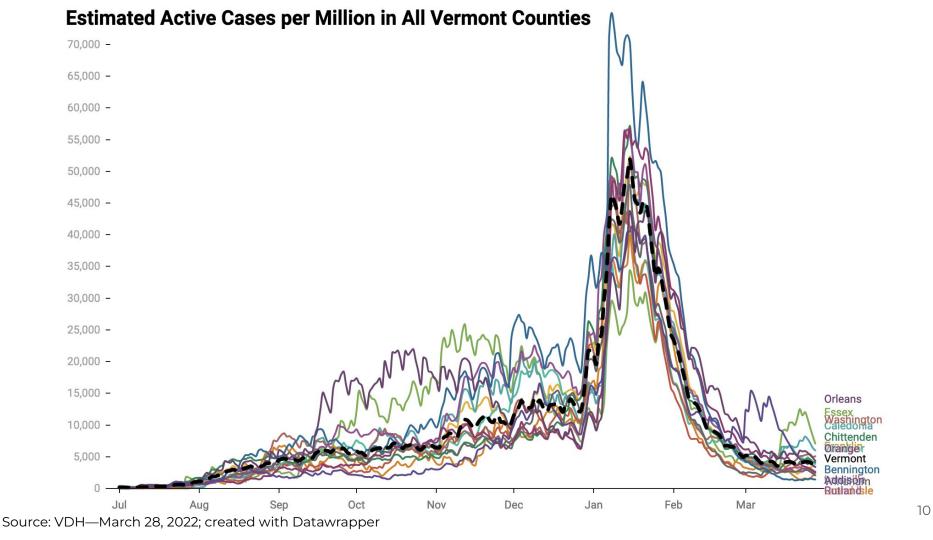


Vermont PCR Test Positivity

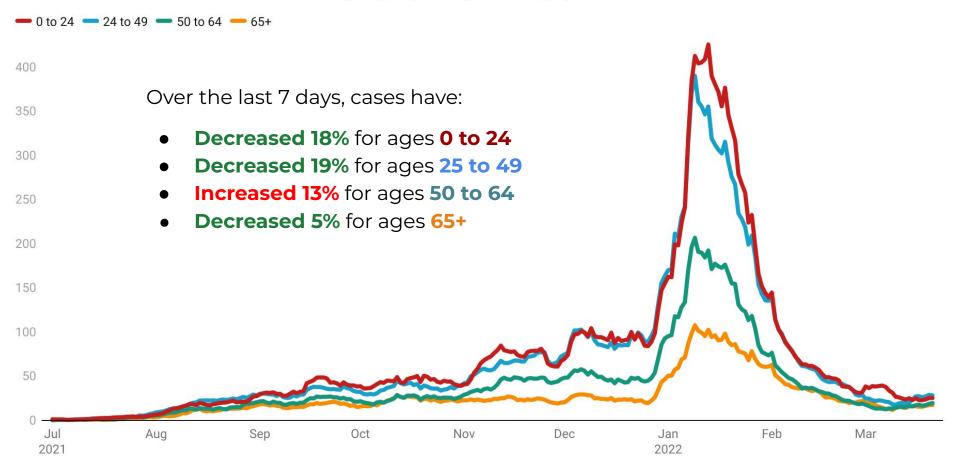


Vermont COVID-19 New Case Rates Per 100K (7-Day Average)

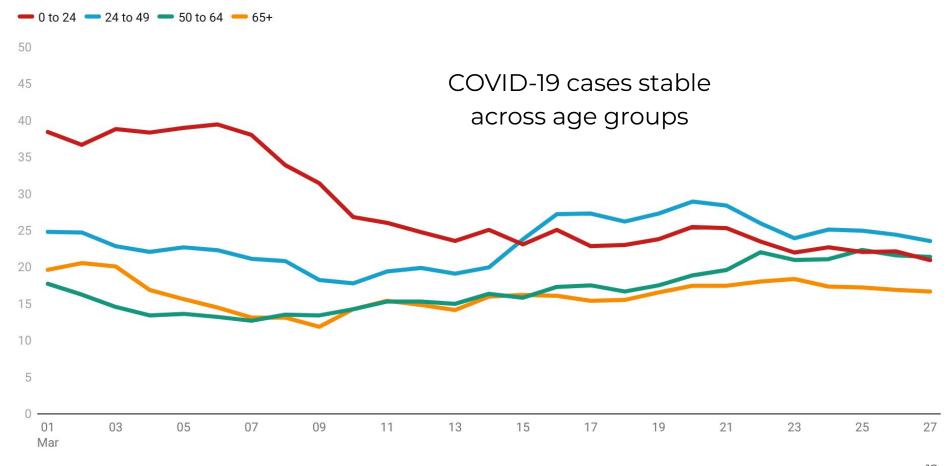




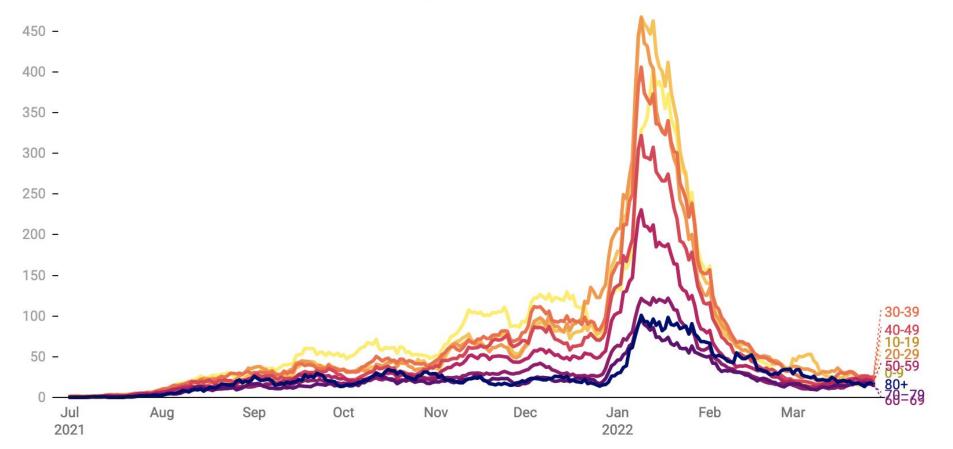
Vermont Case Rates Per 100K By Age (7-Day Average)



Vermont Case Rates Per 100K By Age (7-Day Average) Since March 1st

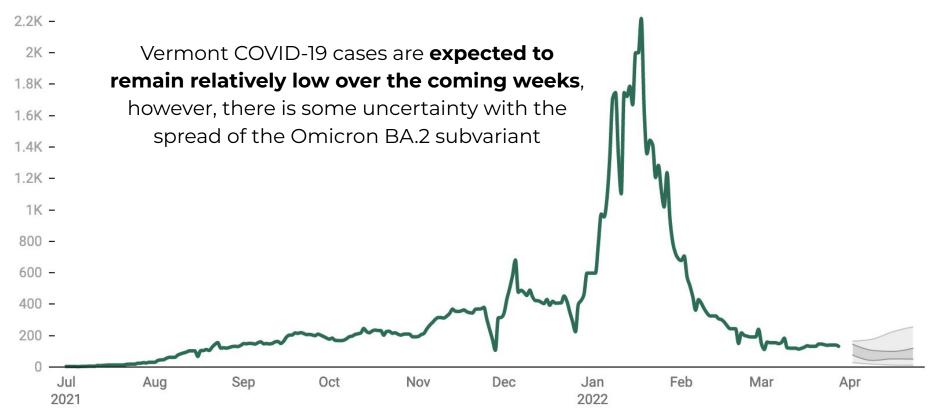


VT COVID-19 Infections per 100K by Age Group



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—March 29, 2022; created with Datawrapper

VT COVID-19 Death Confidence Intervals

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

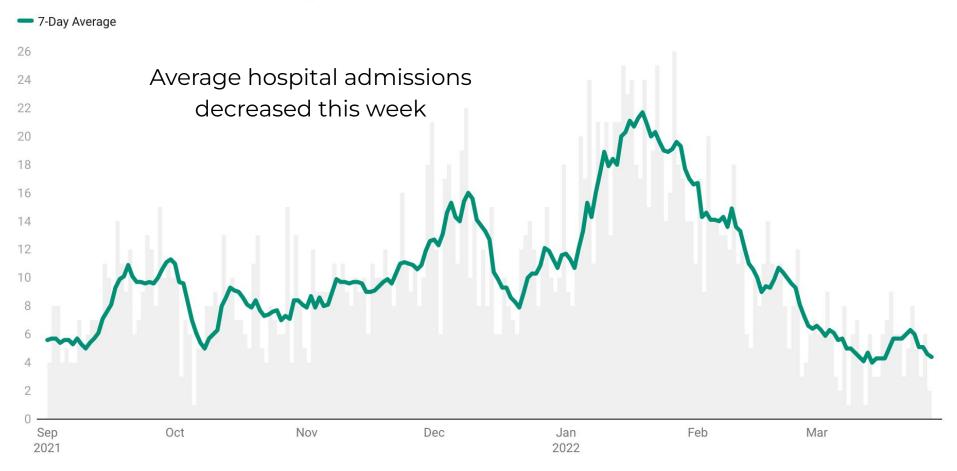
5 -**COVID-19 fatalities are expected to remain** low over the next 4 weeks 4 -Sep Feb Nov Dec Feb Mar May Jun Jul Aug Oct Nov Dec Jan Mar Apr Jan Apr 2020 2021 2022

Active Outbreaks in Long Term Care Facilities

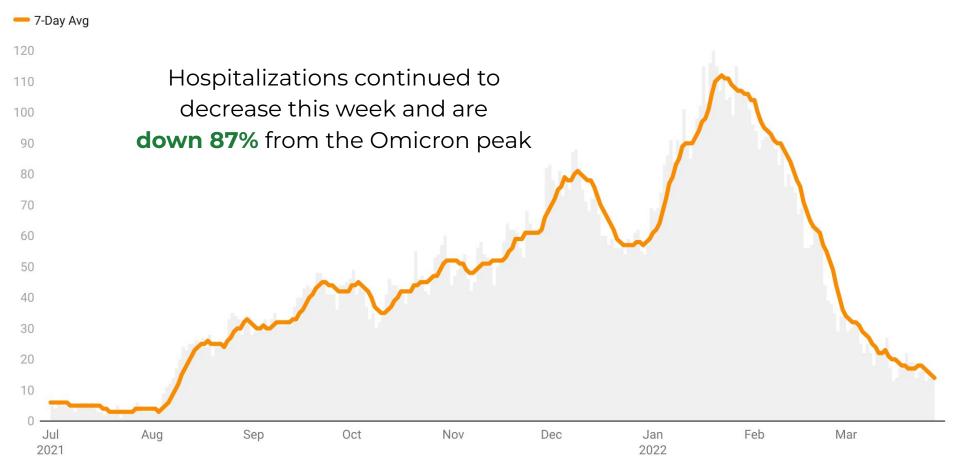
Facility Name	Total COVID-19 Cases
Bel-Aire Center	66
Springfield Rivers Nursing & Rehab	62
Greensboro Nursing home	24
LTCF A	24
Loretto Home	13
Thompson House	12
Total	201

Vermont Hospitalization Data

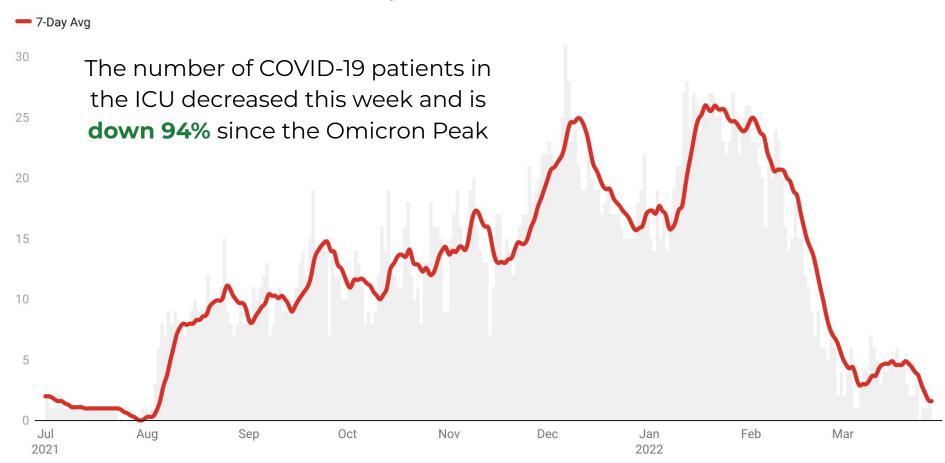
Vermont New COVID-19 Hospital Admissions



Vermont COVID-19 Patients Currently Hospitalized



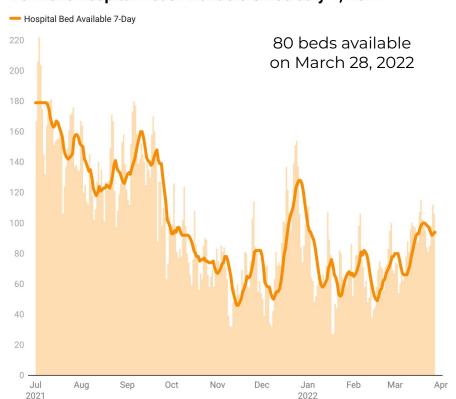
Vermont COVID-19 Patients Currently in the ICU



Vermont Hospital Metrics

(7-Day Averages)

Vermont Hospital Beds Available Since July 1, 2021

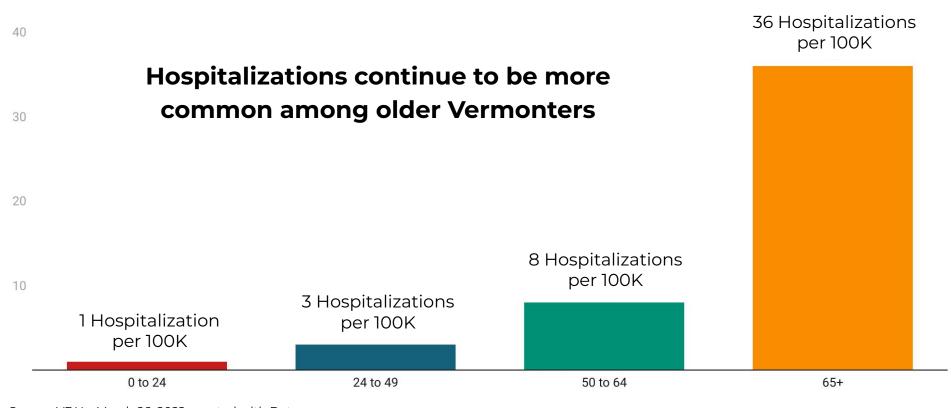


Vermont ICU Beds Available Since July 1, 2021



COVID-19 Hospitalization Rate Per 100K By Age Over The Last 6 Weeks

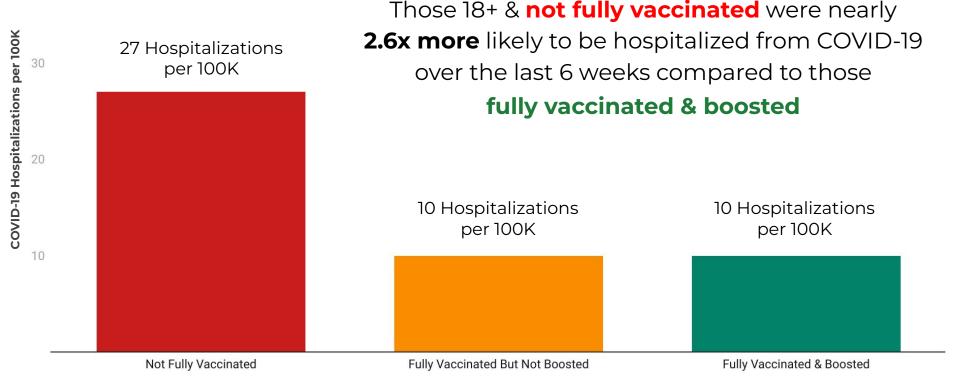




COVID-19 Hospitalizations By Vaccination Status Per 100K

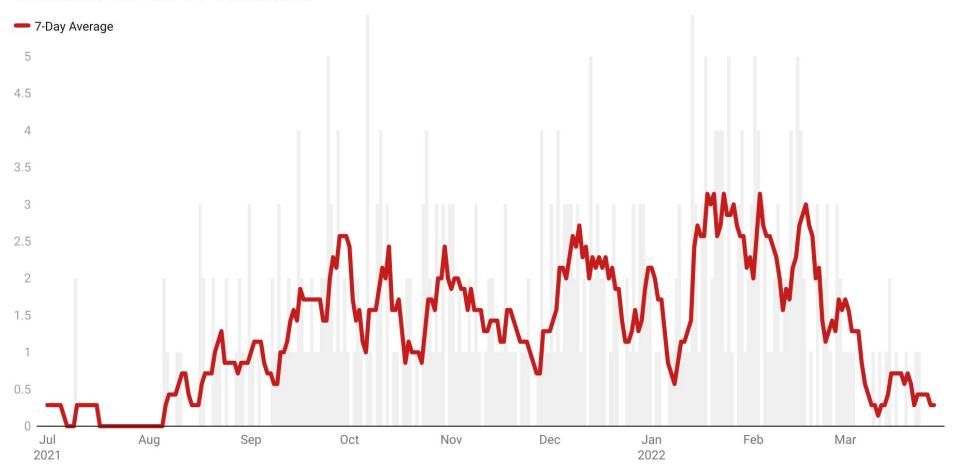
Measured Over the Last 6 Weeks

40

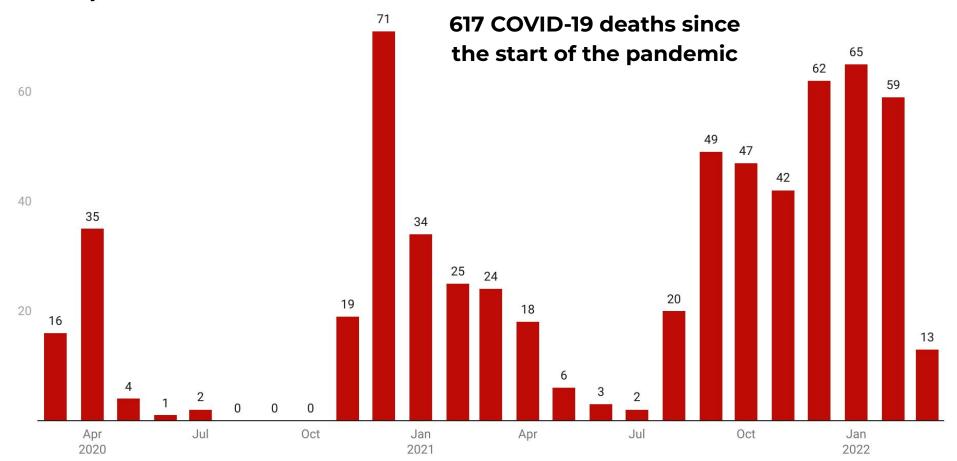


Vermont Fatality Data

Vermont COVID-19 Fatalities



Monthly Covid-19 Deaths In Vermont



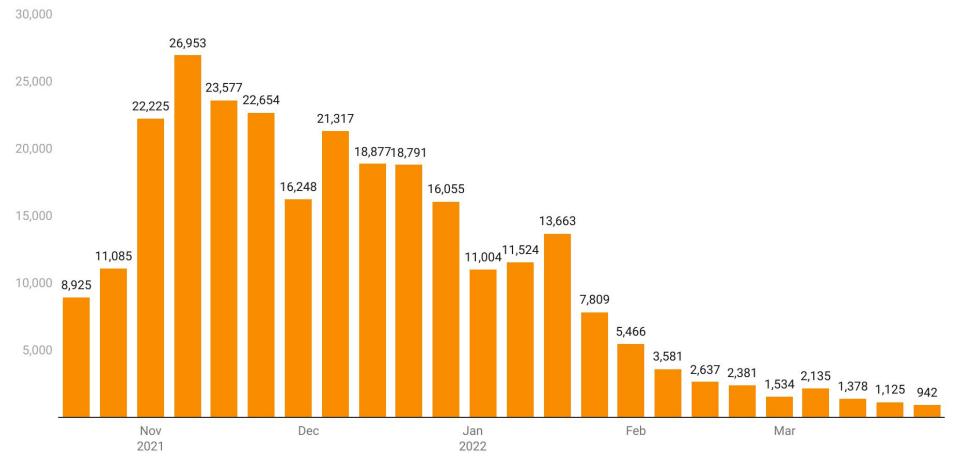
Vermont Vaccination Data

Vermont CDC Vaccine Scorecard

Vaccine Metric	Ranking
Doses Administered per 100K	1
% At Least 1 Dose (5+ Population)	1 (tied)
% Fully Vaccinated (5+ Population)	2
% At Least 1 Dose (Full Population)	3
% Fully Vaccinated (Full Population)	2
% Fully Vaccinated (65 & Over)	1 (tied)

Booster Metric	Ranking
% of Fully Vaccinated w/ booster dose	1
% of Fully vaccinated 12+ w/ booster doses	1
% of Fully vaccinated 18+ w/ booster doses	1
% of Fully vaccinated 65+ w/ booster doses	3

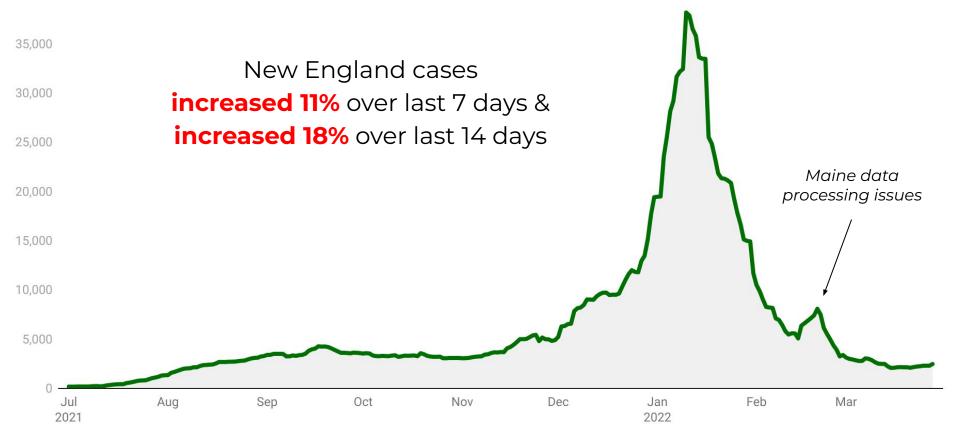
Vermont: Booster Shots Administered By Week



Regional Data

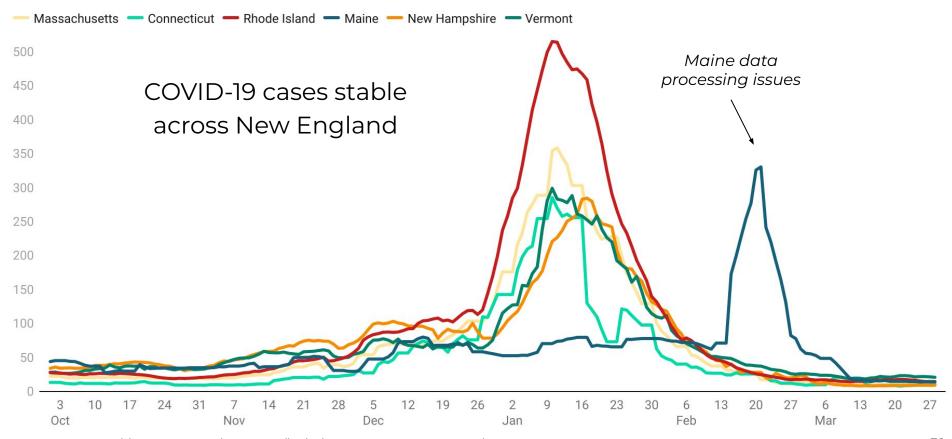
New England COVID-19 Cases

New England 7-Day Case Average

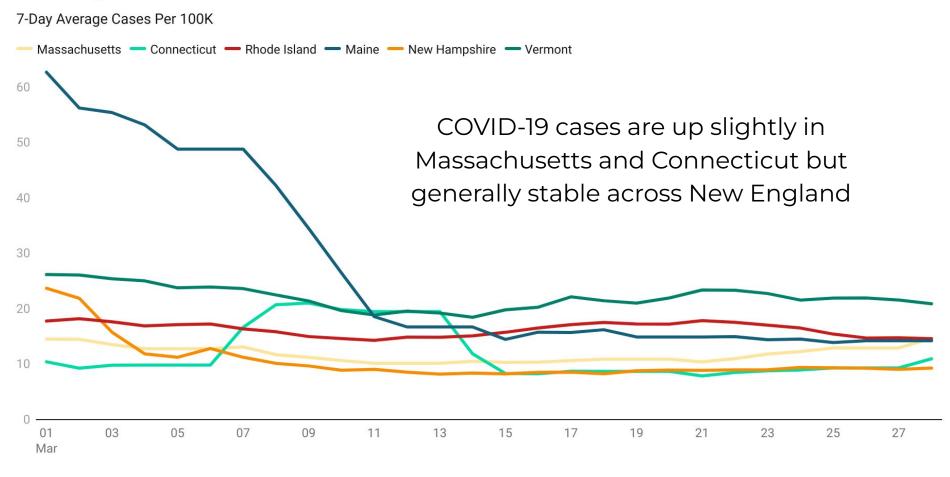


New England COVID-19 Case Trends

7-Day Average Cases Per 100K

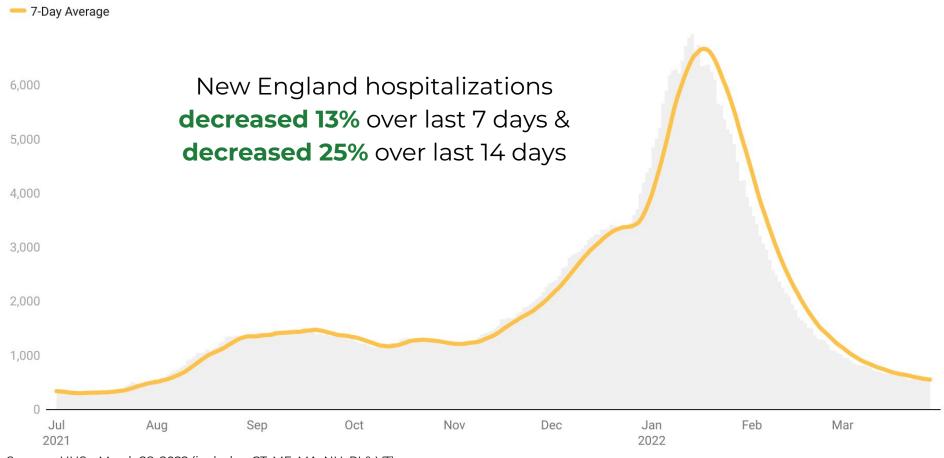


New England COVID-19 Case Trends Since March 1st



Sources: State Health Depts.—March 28, 2022 (includes: CT, ME, MA, NH, RI & VT)

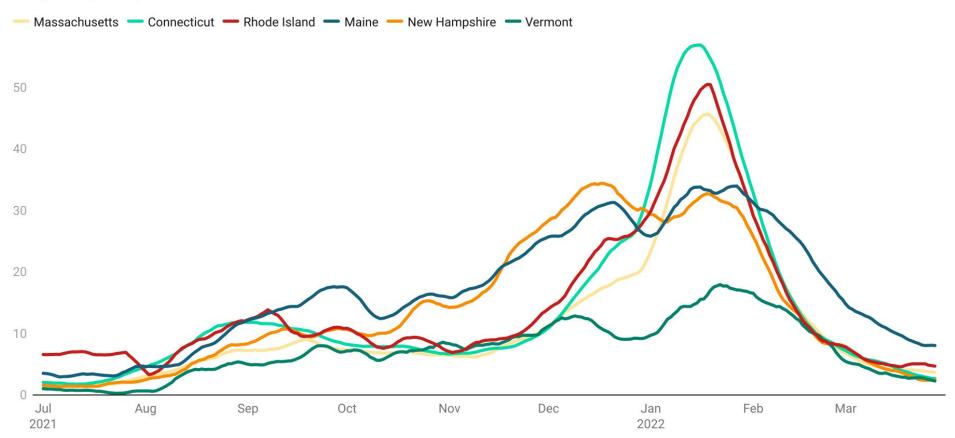
New England COVID-19 Hospitalizations



Sources: HHS—March 28, 2022 (includes: CT, ME, MA, NH, RI & VT)

New England COVID-19 Hospitalizations Trends

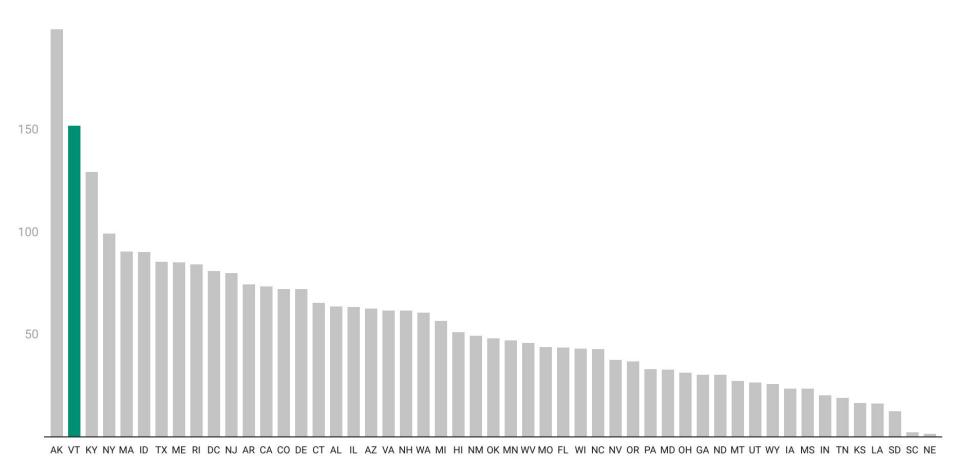
7-Day Average Hospitalizations Per 100K



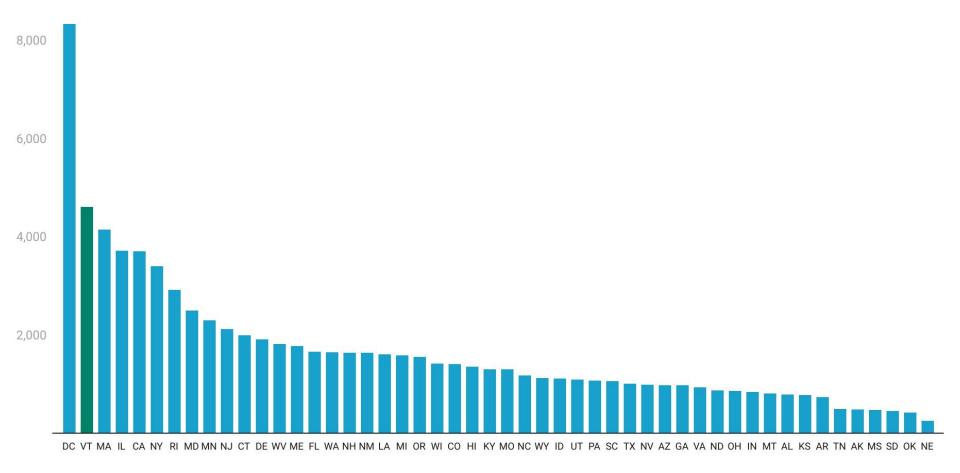
Sources: HHS—March 28, 2022 (includes: CT, ME, MA, NH, RI & VT)

National Data

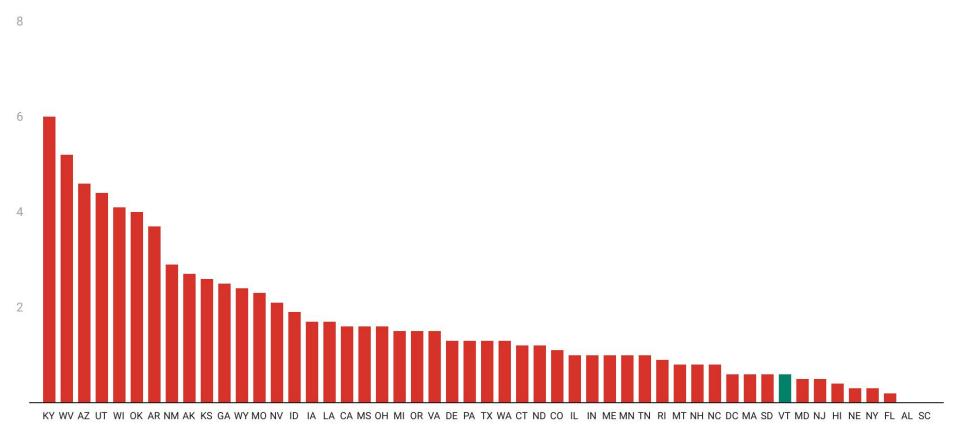
National COVID-19 Case Rates Per 100K Last 7 Days



COVID-19 Testing Per 100K Last 7 Days

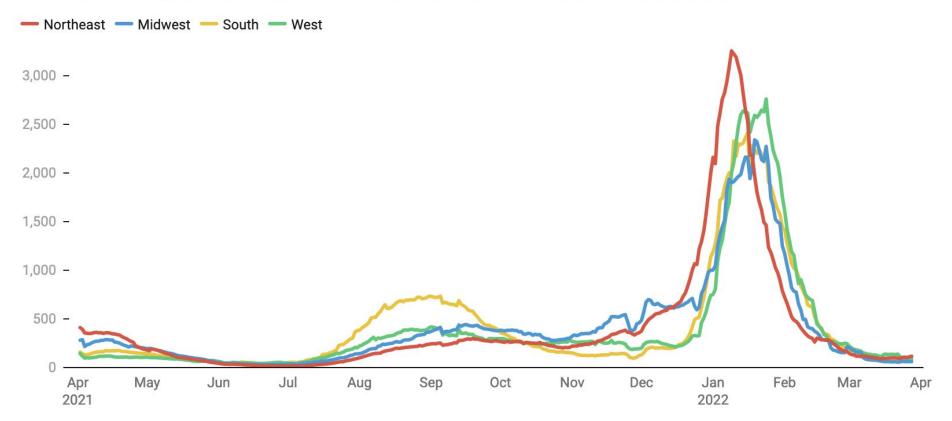


COVID-19 Deaths Per 100K Last 7 Days



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.



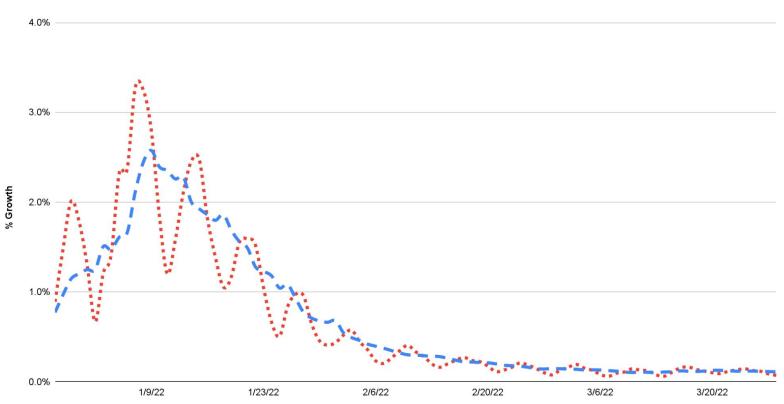
RESTART VERMONT

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

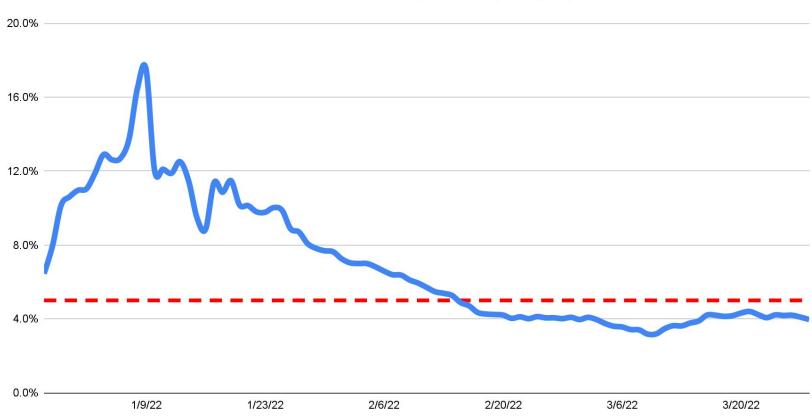
Viral Growth & Reproductive Rates

-- Rolling 3-Day Avg % Growth -- Rolling 7-Day Avg % Growth



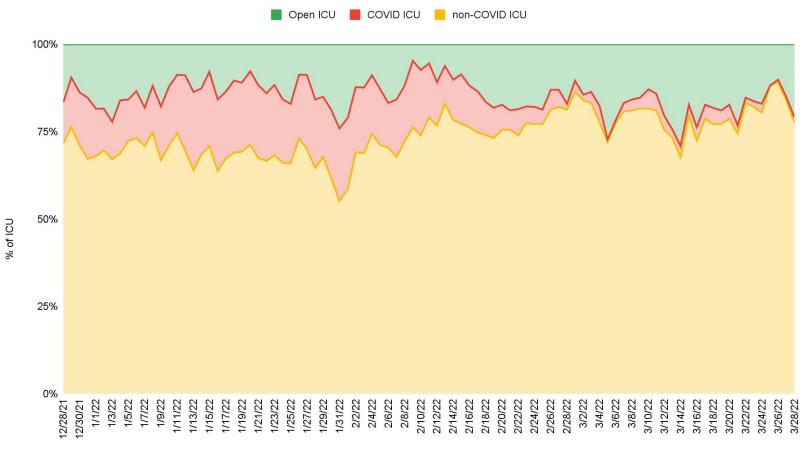
Test Positivity





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

Critical Care Beds



Vermont Testing

7-Day Rolling Average

