

COVID-19 Modeling

May 3, 2022

Presentation available at:
dfr.vermont.gov

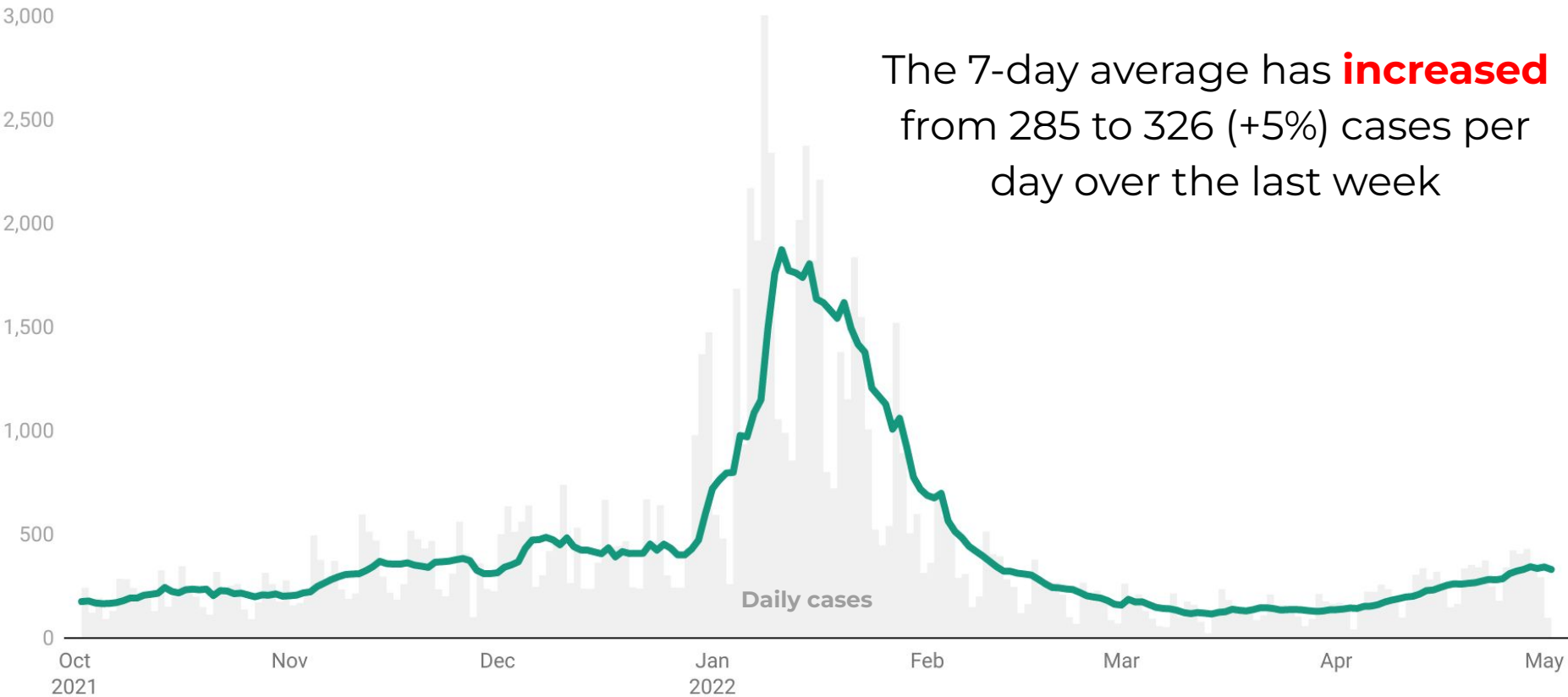
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Vermont Case Data

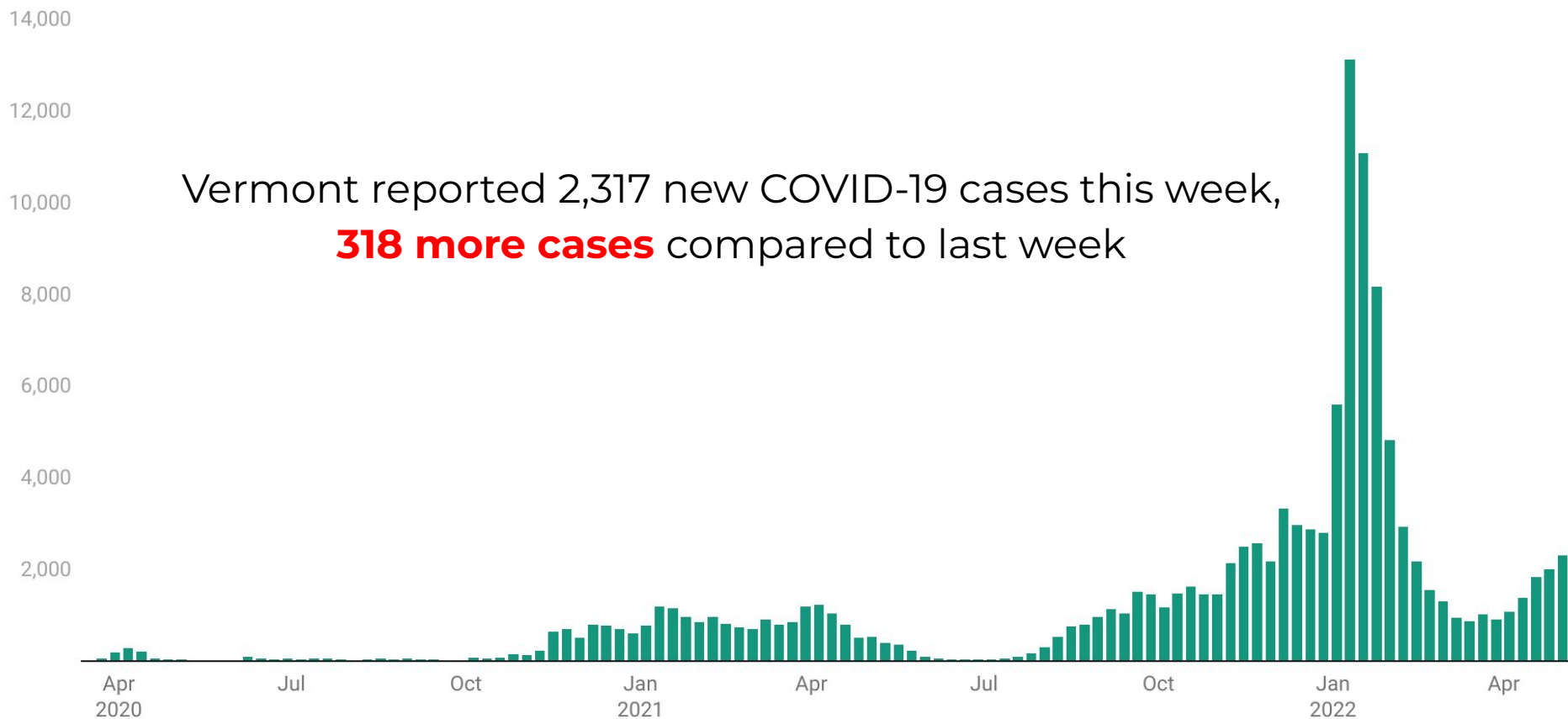
Vermont New COVID-19 Cases

7-Day Average



Source: VDH—May 3, 2022; created with Datawrapper

Vermont New Weekly COVID-19

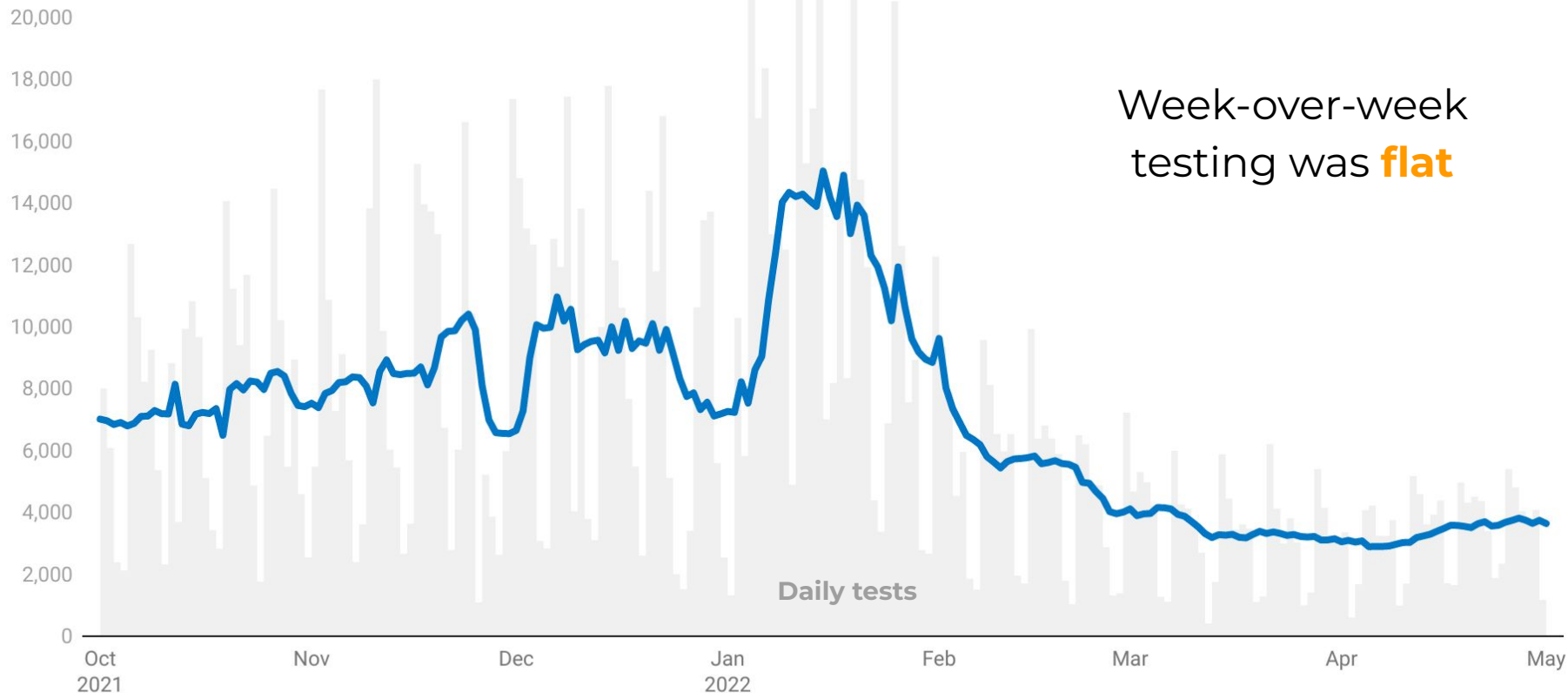


Vermont reported 2,317 new COVID-19 cases this week,
318 more cases compared to last week

Source: VDH—May 2, 2022; created with Datawrapper

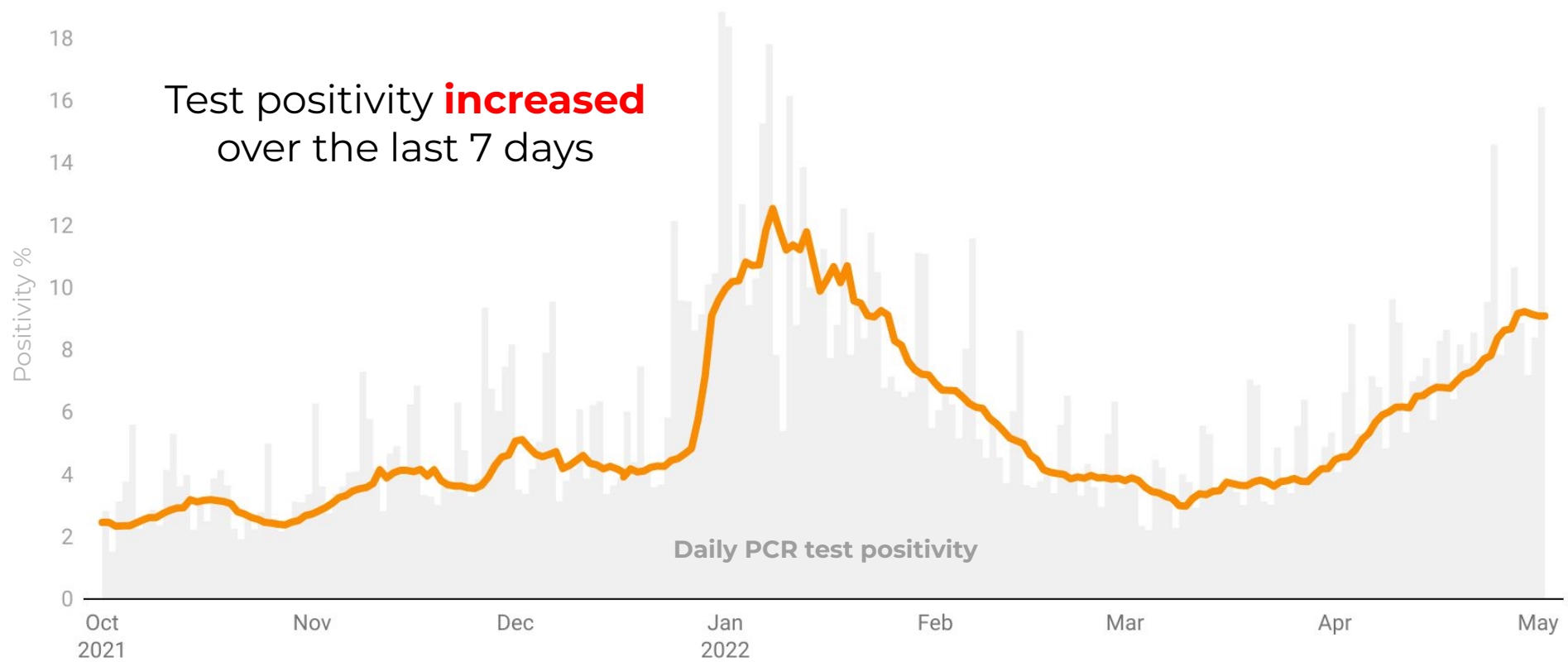
Vermont COVID-19 PCR Testing

7-Day Average



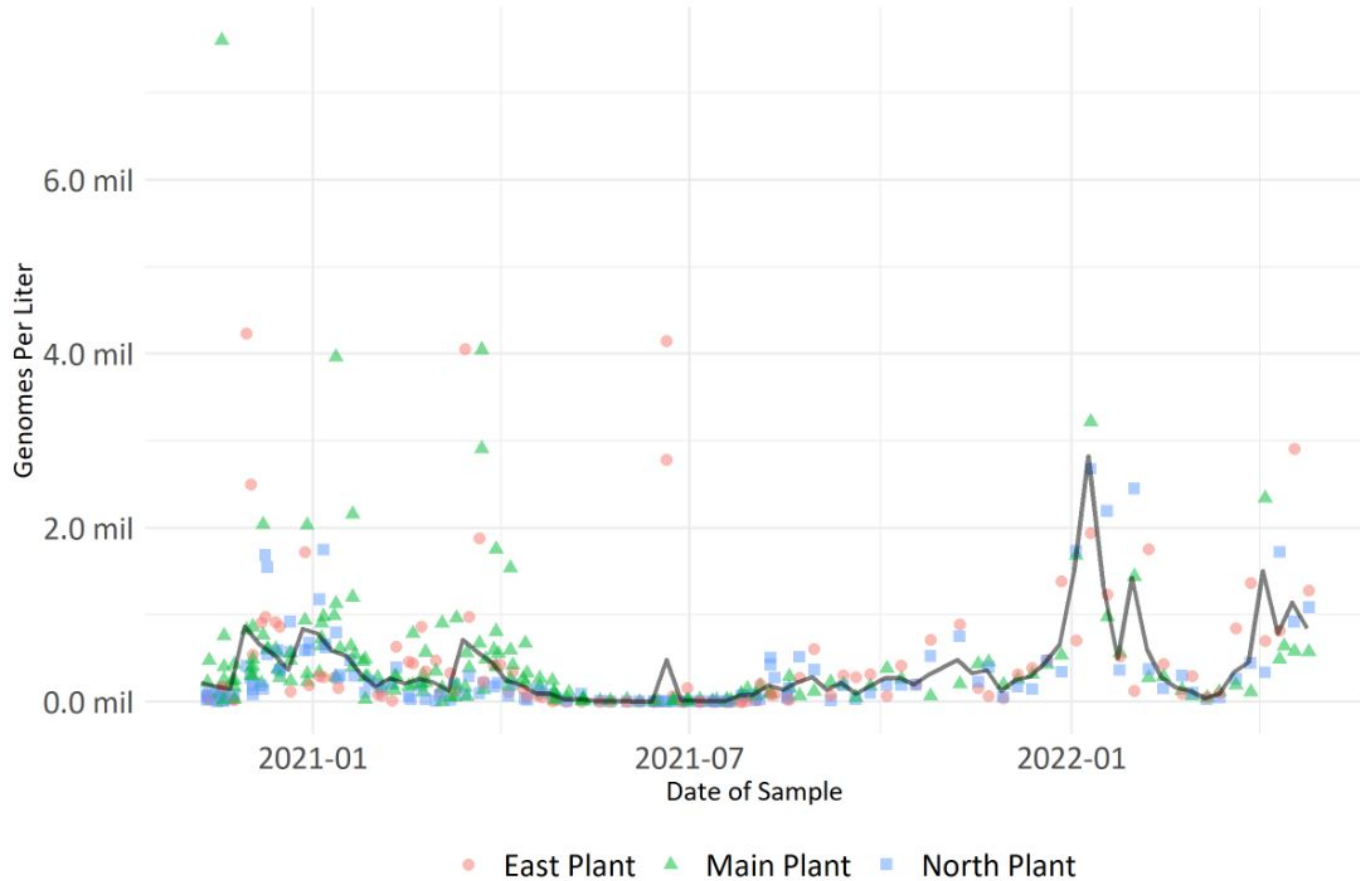
Vermont PCR Test Positivity

7-Day Positivity Rate



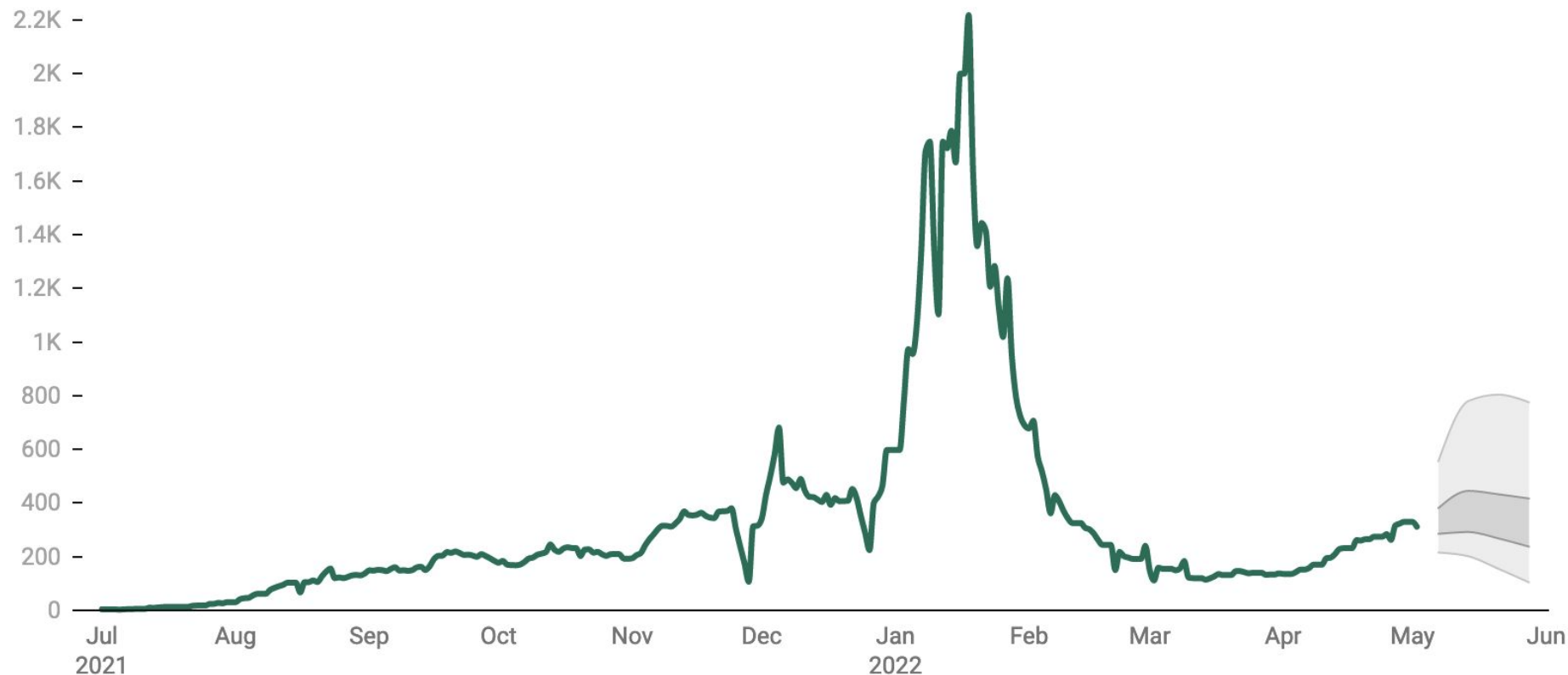
Sars-Cov-2 in Burlington Wastewater

Average Across Plants by Week, Weighted by Population



VT COVID-19 Infection Confidence Intervals

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



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 -

3 -

2 -

1 -

0

Nov 2020 Dec Jan 2021 Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan 2022 Feb Mar Apr May Jun

Active Outbreaks in Long Term Care Facilities

Facility Name	Total COVID-19 Cases
Barre Gardens	68
Centers for Living & Rehabilitation	41
Pine Heights at Brattleboro	35
Converse Home INC	31
Villa Rehab Center	29
Brownway Residence	28
Green Mountain Nursing and Rehab	14
The Residence at Shelburne Bay	12
Cathedral Square Assisted Living	11
Residence at Otter Creek	9
Eastview At Middlebury	7
Michaud Memorial Manor	7
Total	292

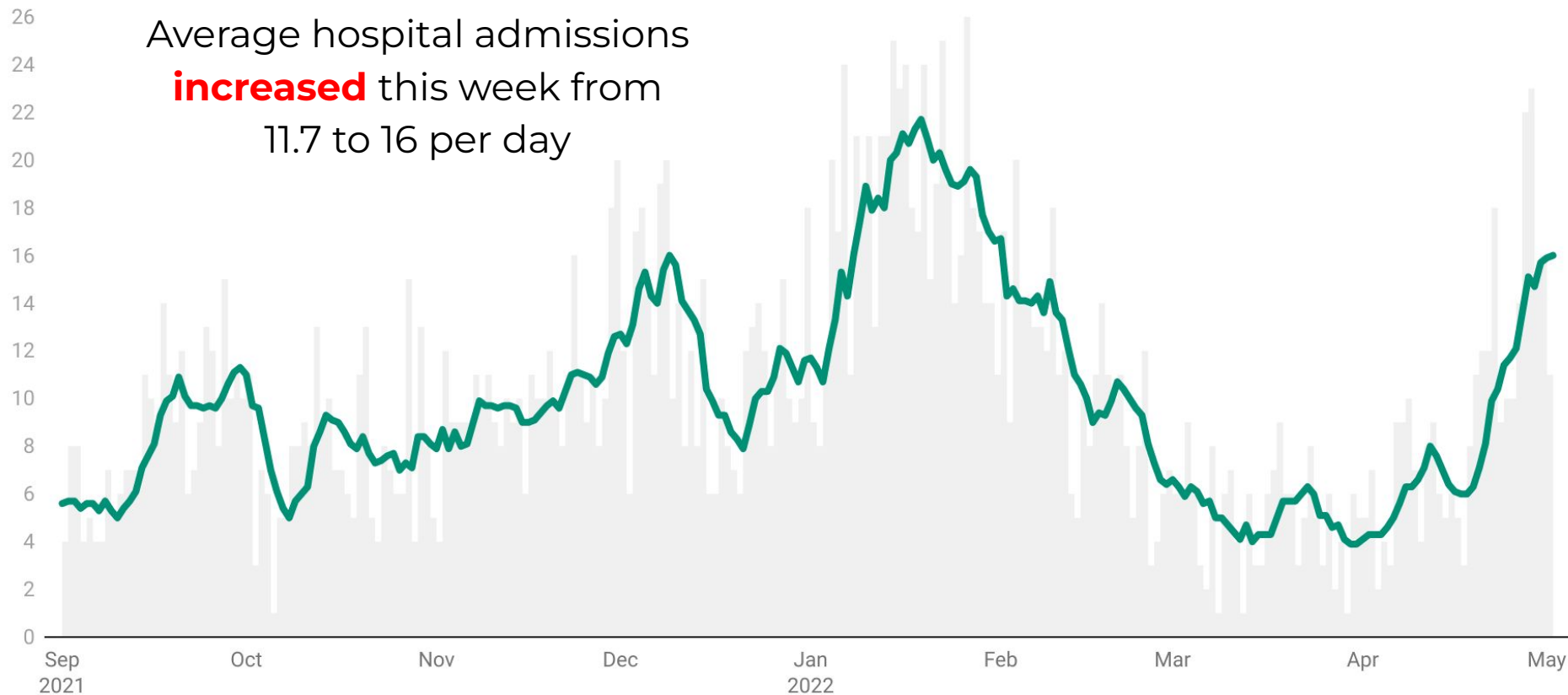
Source: Vermont Department of Health—May 2, 2022 (reporting Monday through previous Sunday); 'Active' defined as less than 28 days since most recent case's specimen collection date or illness start date (whichever is later); *privacy suppressions include facility w/ <25 staff and residents and/or >75% of facility infected

Vermont Hospitalization Data

Vermont New COVID-19 Hospital Admissions

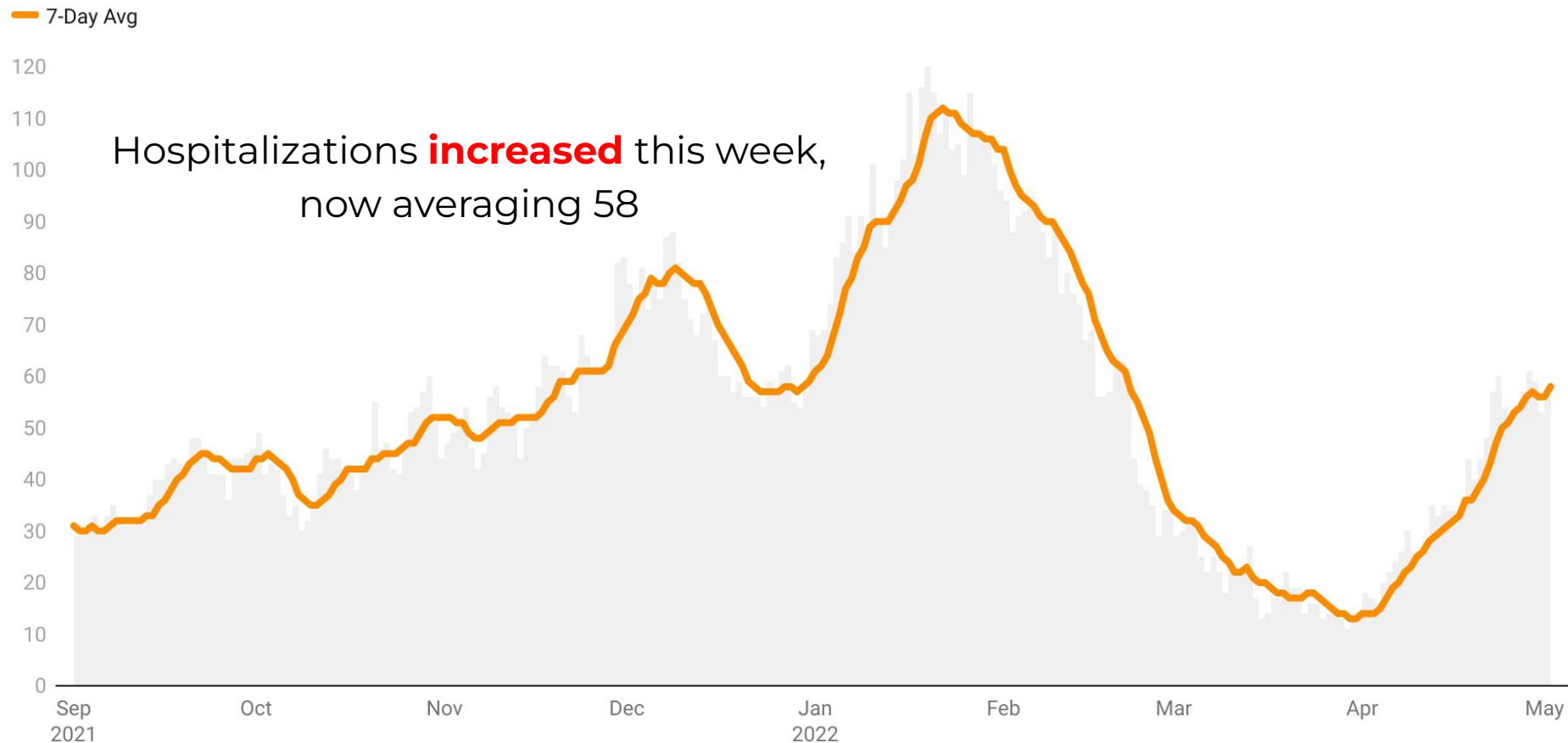
7-Day Average

Average hospital admissions
increased this week from
11.7 to 16 per day



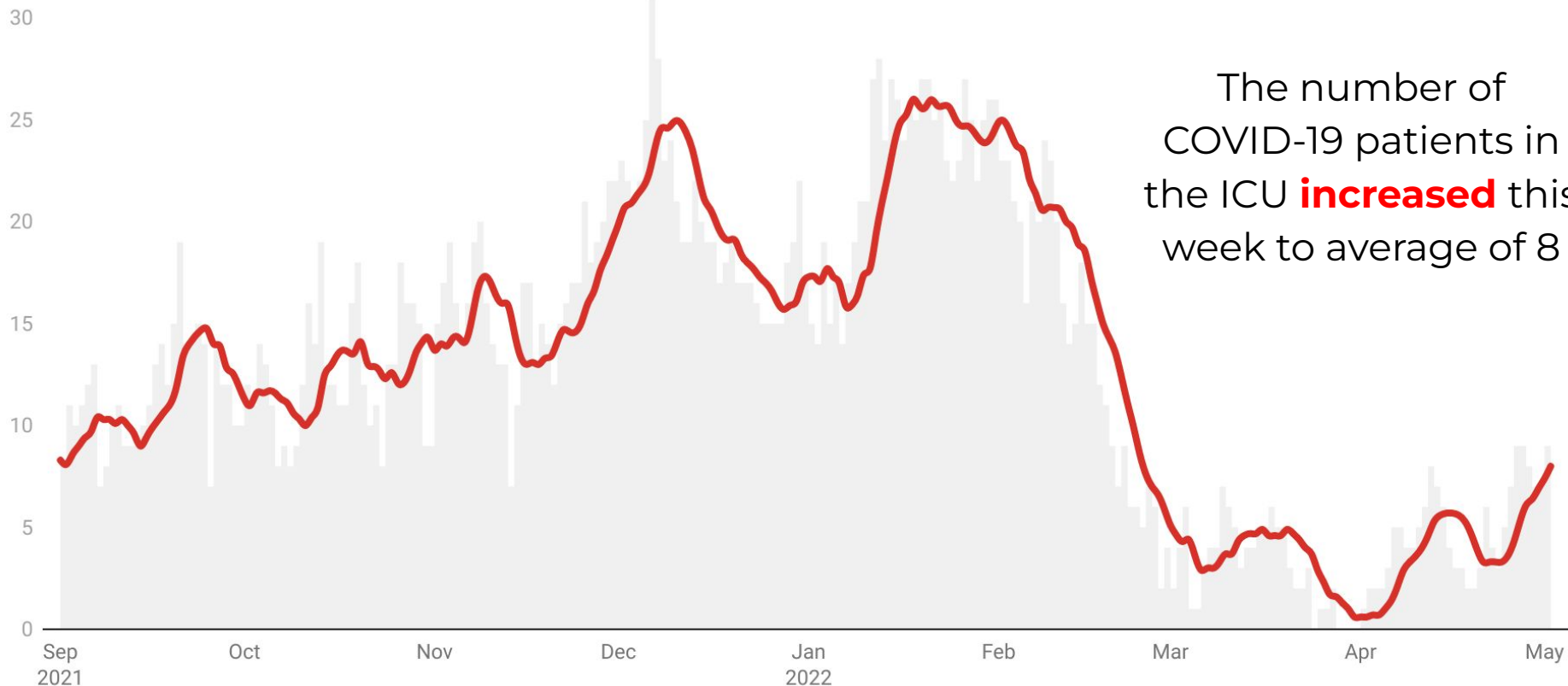
Source: HHS—May 2, 2022; created with Datawrapper

Vermont COVID-19 Patients Currently Hospitalized



Vermont COVID-19 Patients Currently in the ICU

— 7-Day Avg



The number of COVID-19 patients in the ICU **increased** this week to average of 8

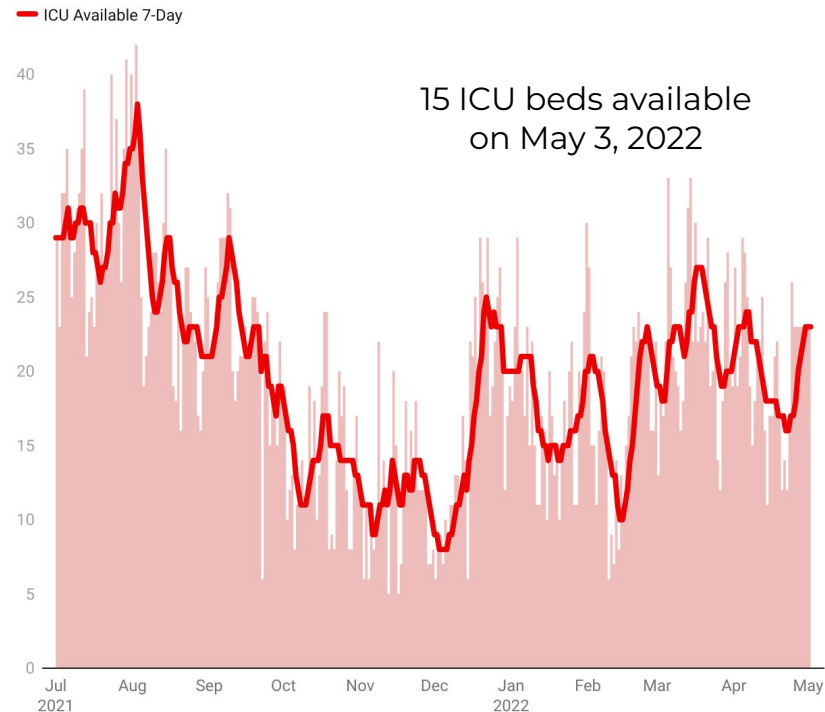
Vermont Hospital Metrics

(7-Day Averages)

Vermont Hospital Beds Available Since July 1, 2021

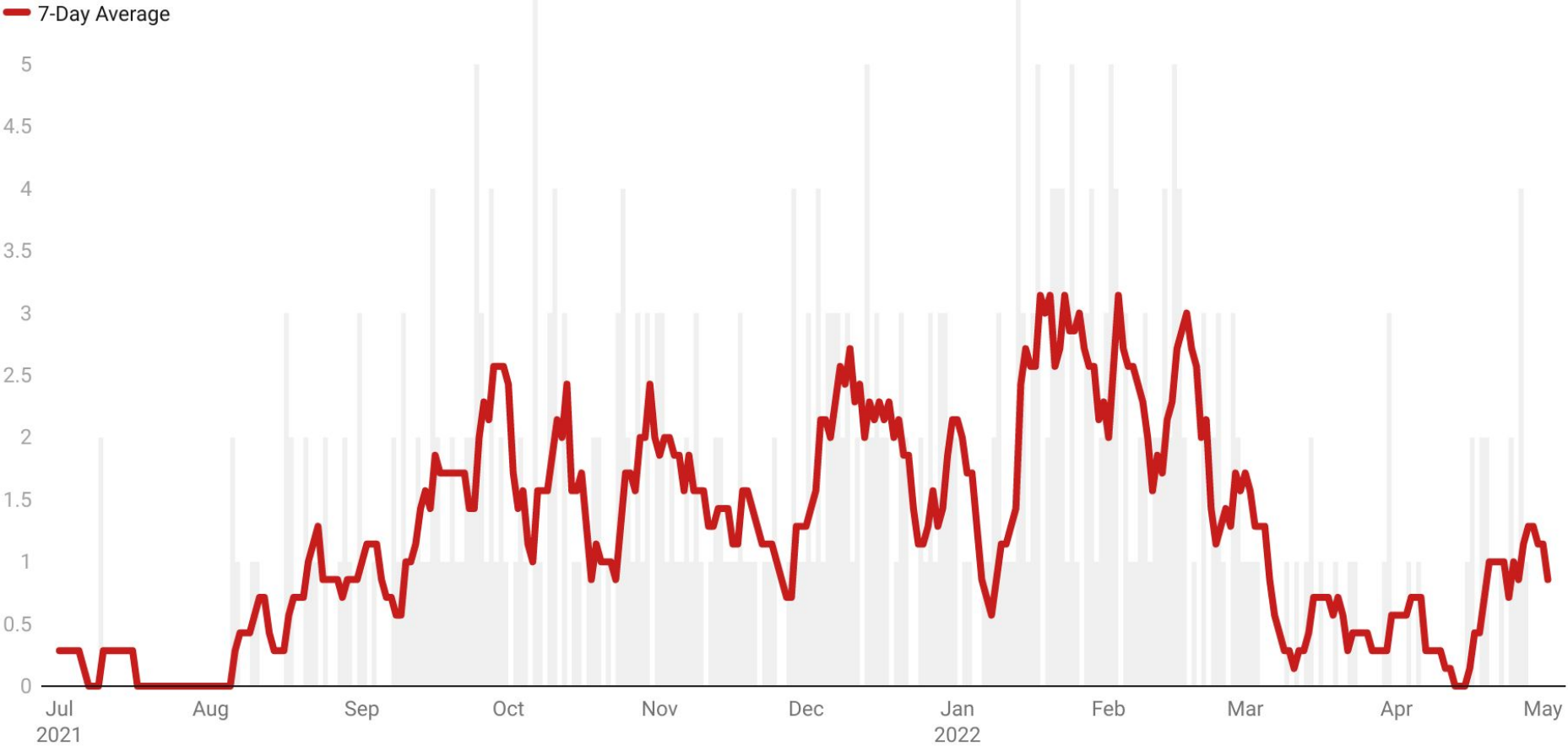


Vermont ICU Beds Available Since July 1, 2021



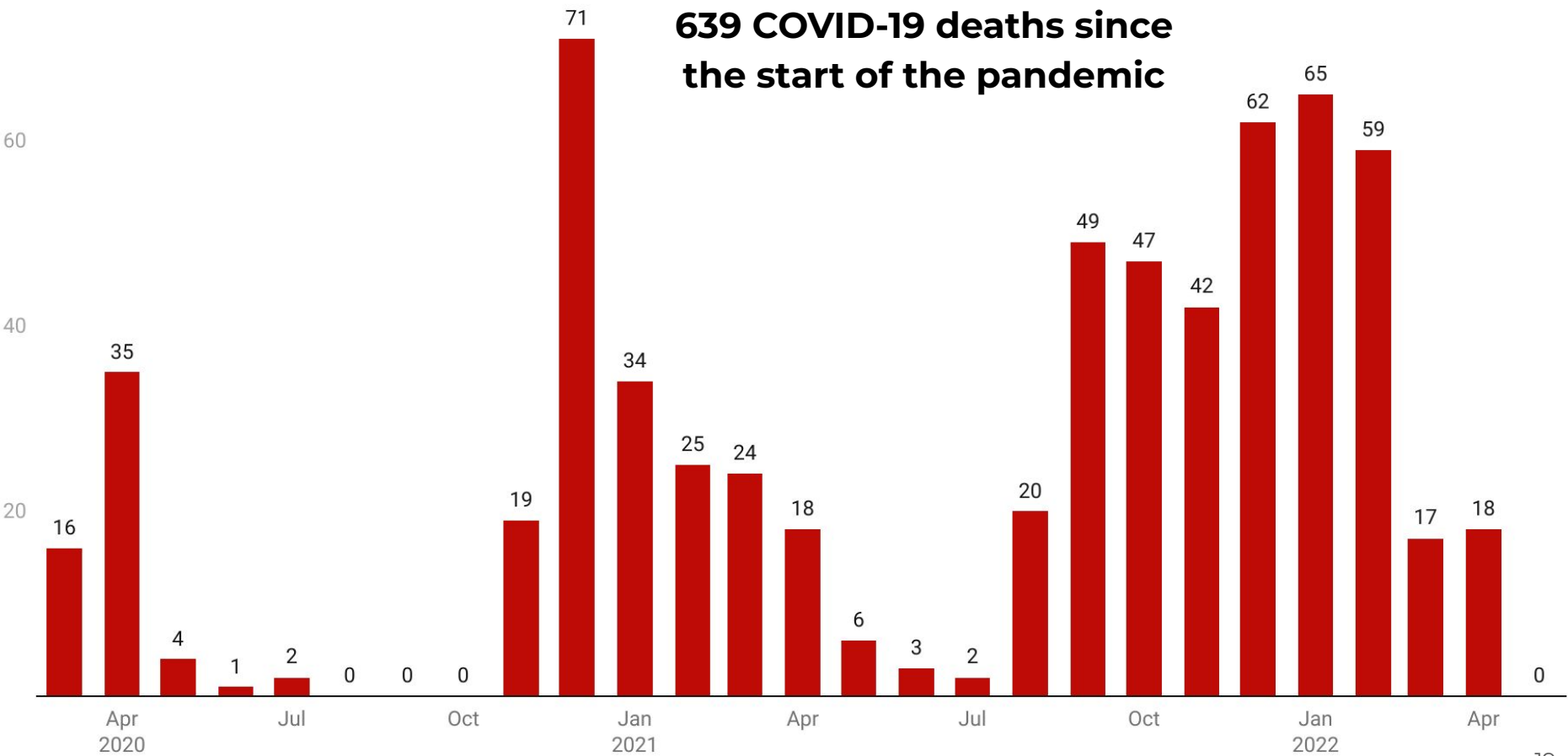
Vermont Fatality Data

Vermont COVID-19 Fatalities



Source: VDH—May 2, 2022; created with Datawrapper

Monthly Covid-19 Deaths In Vermont

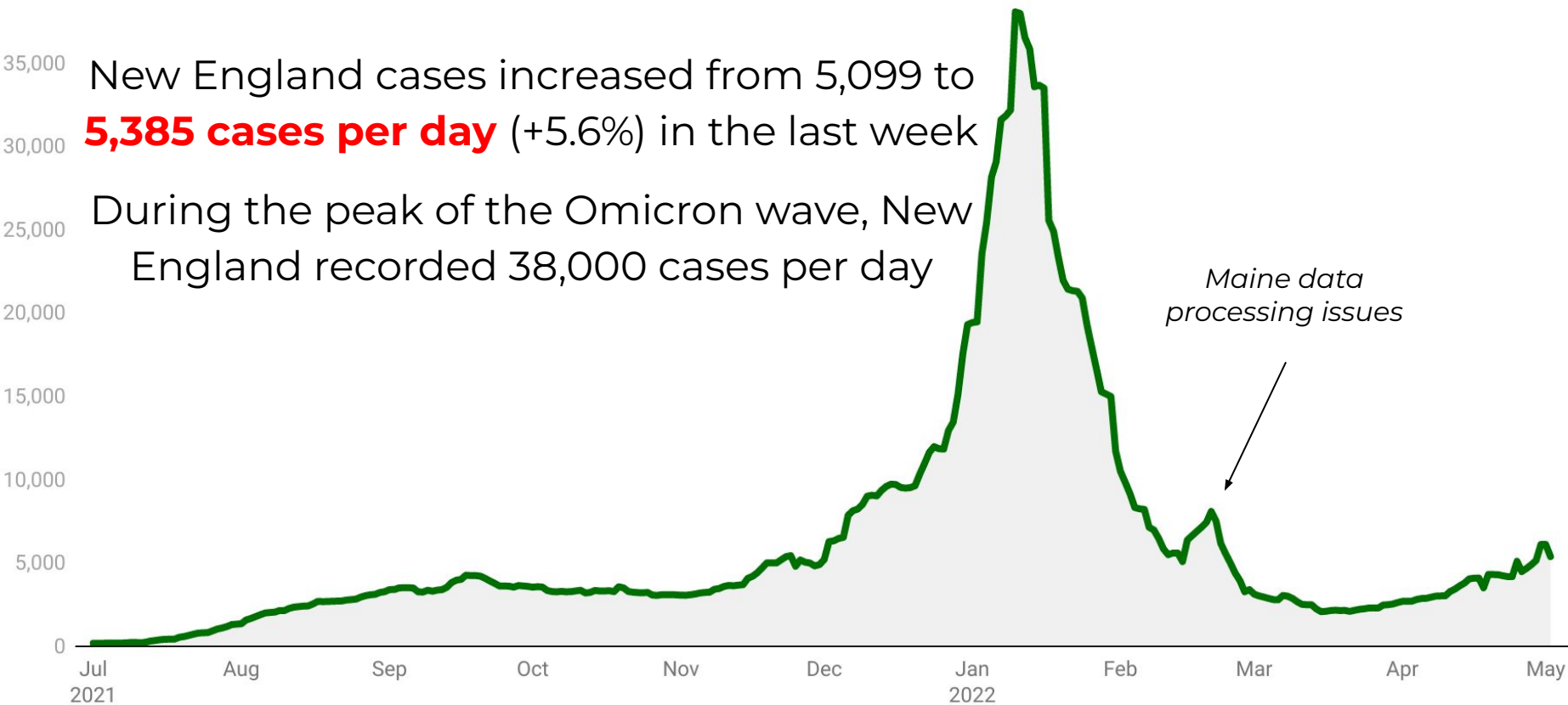


Source: VDH—May 2, 2022; created with Datawrapperr; deaths attributed to month in which death occurred rather than reported

Regional Data

New England COVID-19 Cases

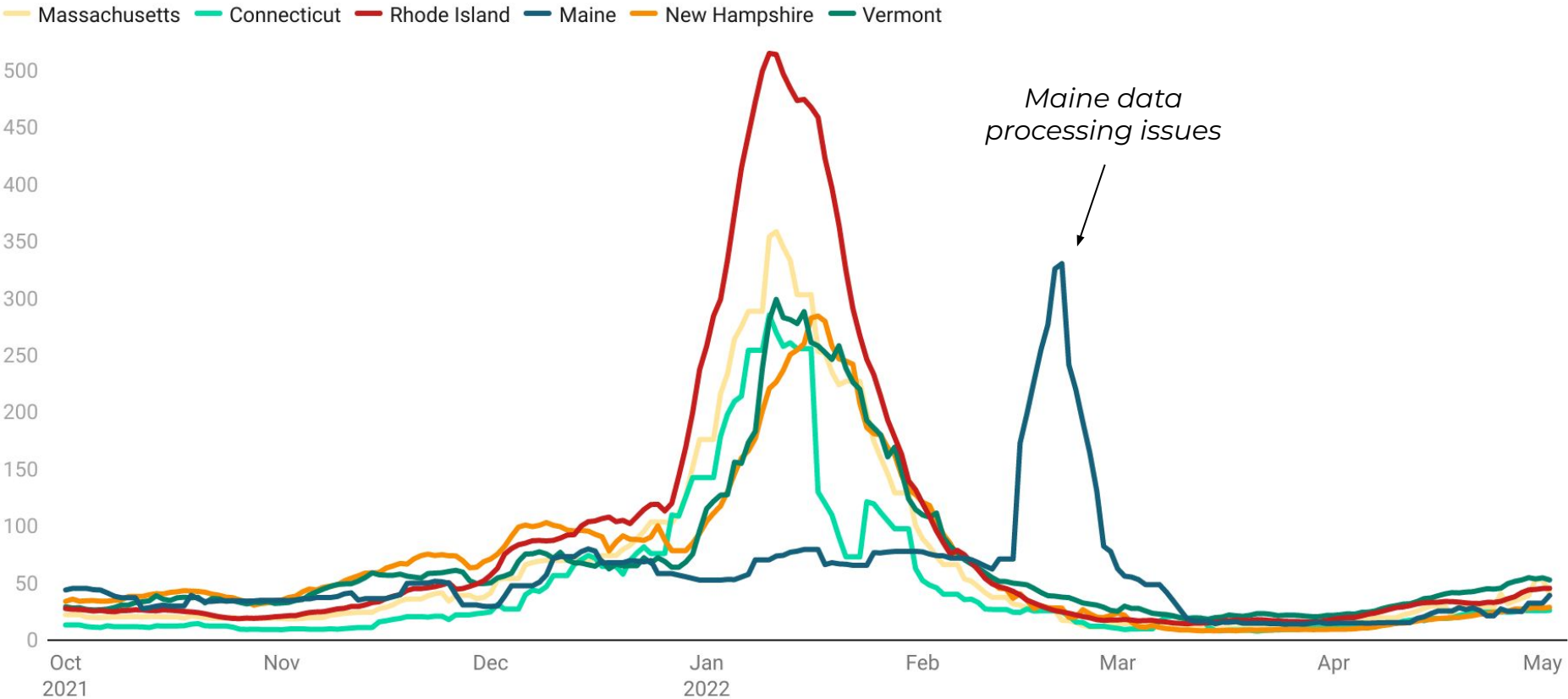
New England 7-Day Case Average



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

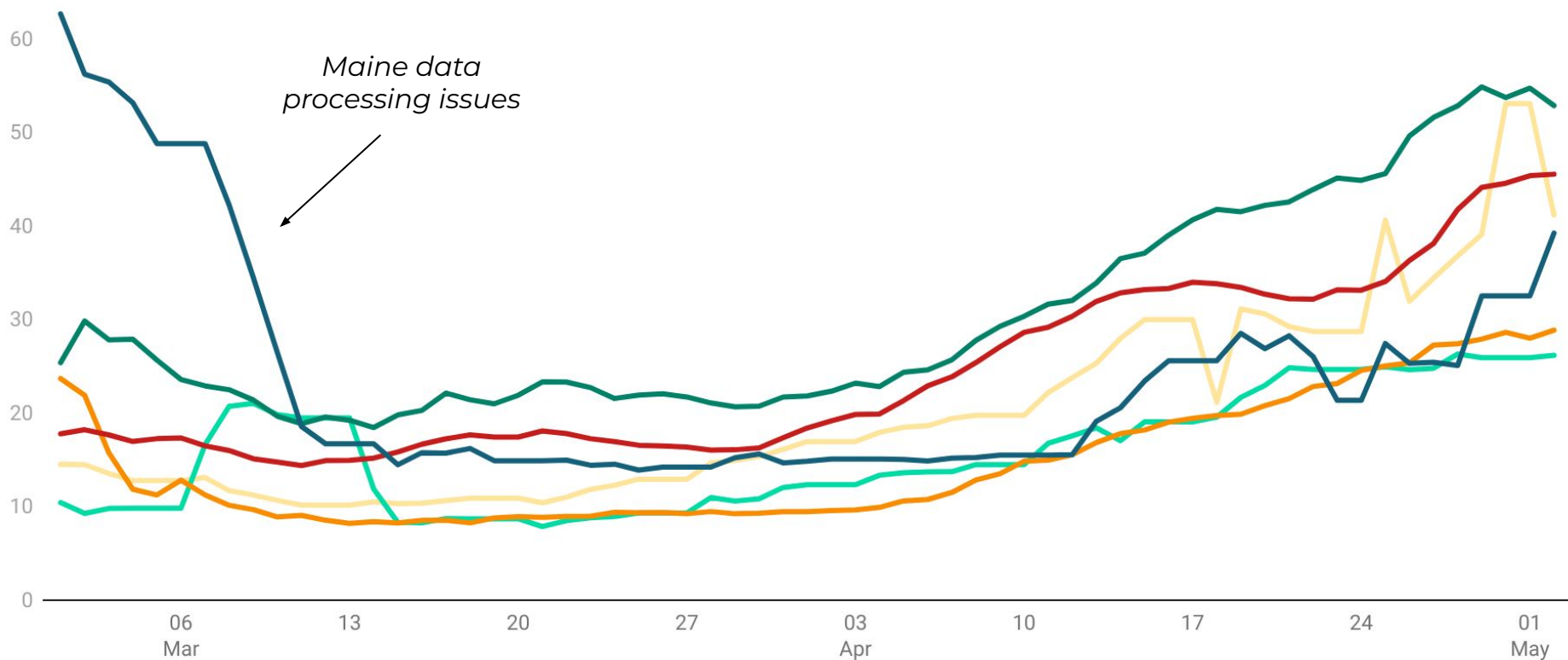


Sources: State Health Depts.—May 2, 2022 (includes: CT, ME, MA, NH, RI & VT)

New England COVID-19 Case Trends Since March 1st

7-Day Average Cases Per 100K

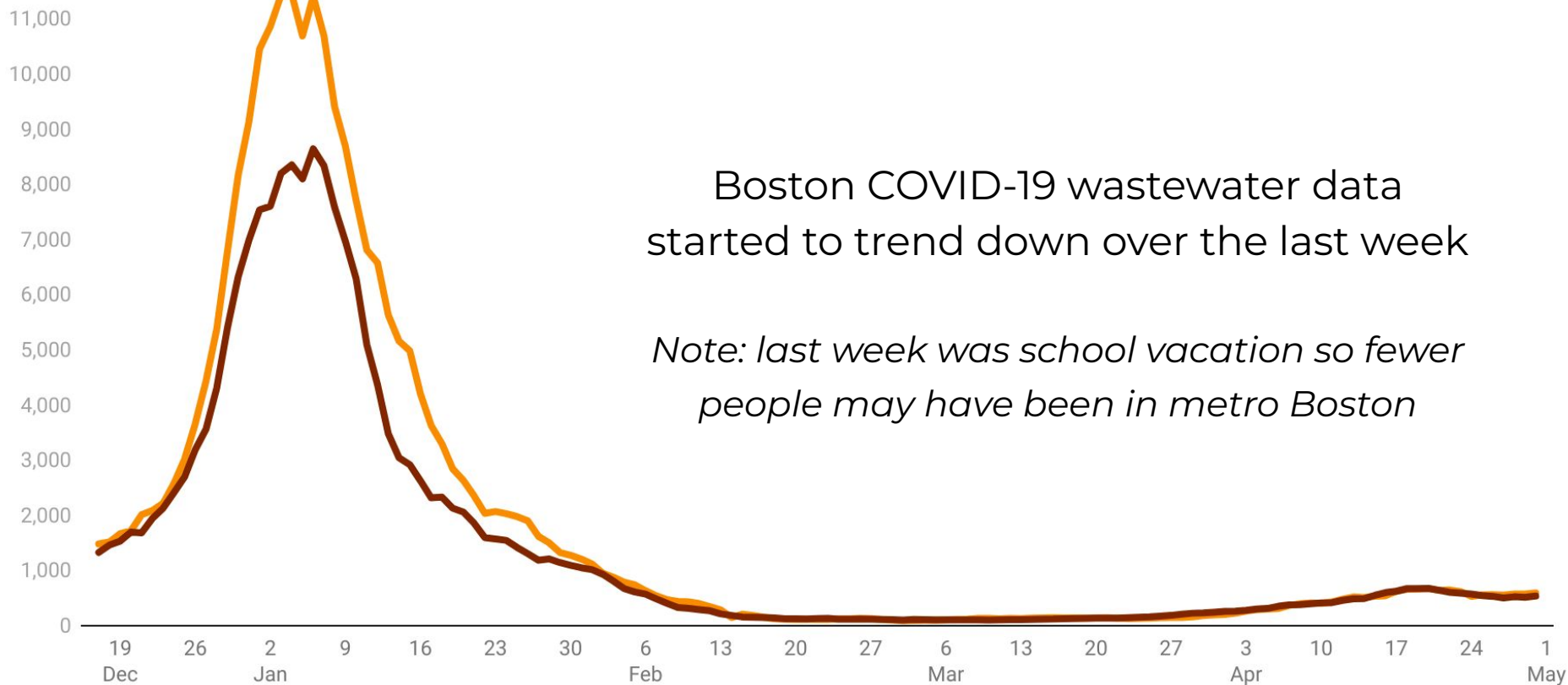
Massachusetts Connecticut Rhode Island Maine New Hampshire Vermont



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

Boston Wastewater COVID-19 Detection

— Southern Collection Area (7-Day Average) — Northern Collection Area (7-Day Average)



Boston COVID-19 wastewater data started to trend down over the last week

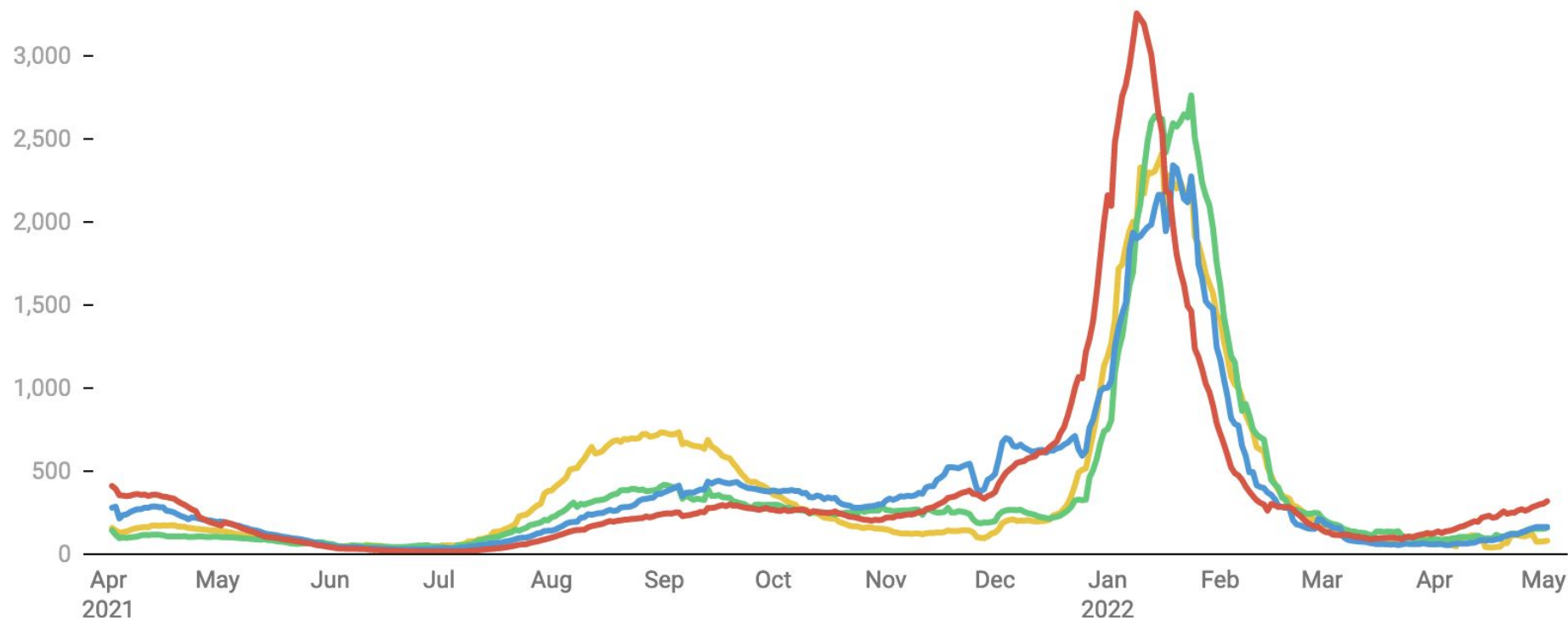
Note: last week was school vacation so fewer people may have been in metro Boston

National Data

Daily COVID-19 Cases per Million in US Regions

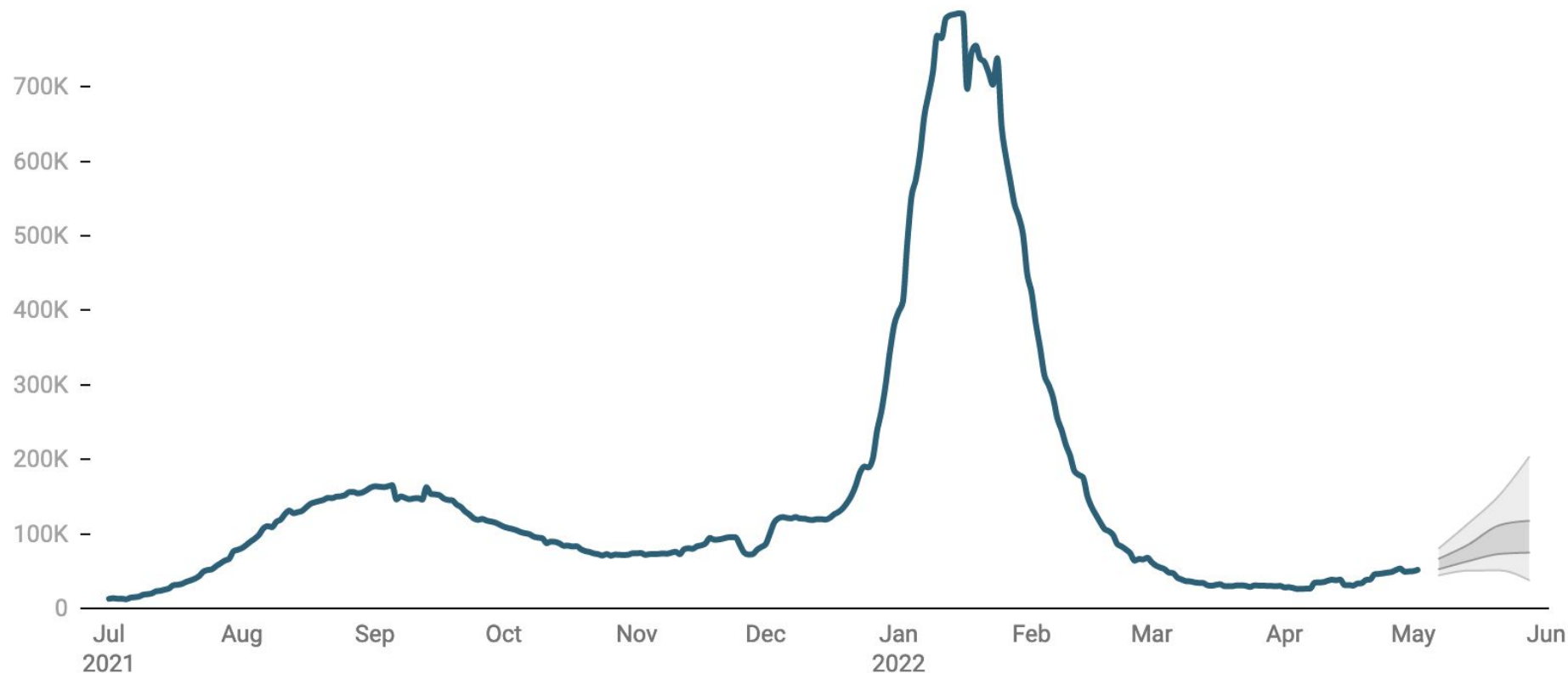
Calculated as a 7-day moving average. Definitions of North, Midwest, South, and West taken from the U.S. Census bureau.

— Northeast — Midwest — South — West



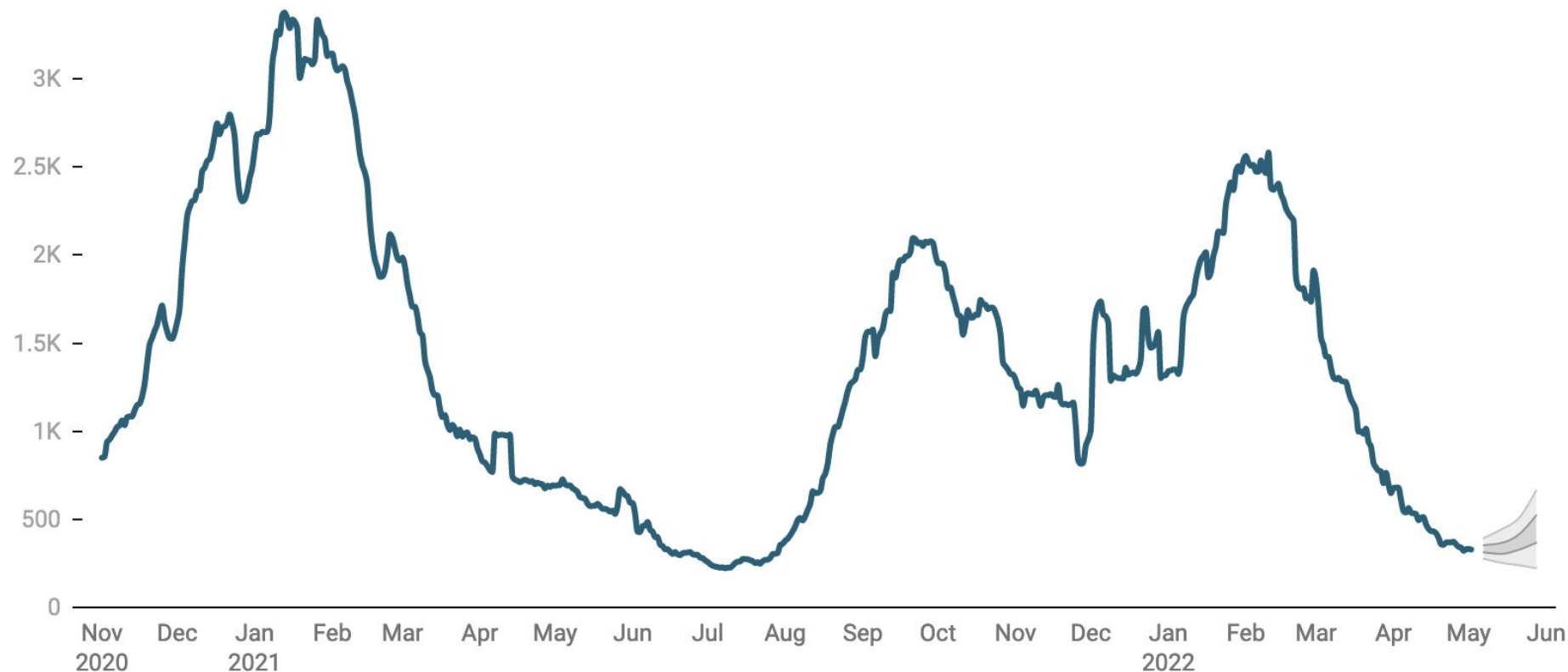
US COVID-19 Infection Confidence Intervals

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



US COVID-19 Death Confidence Intervals

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

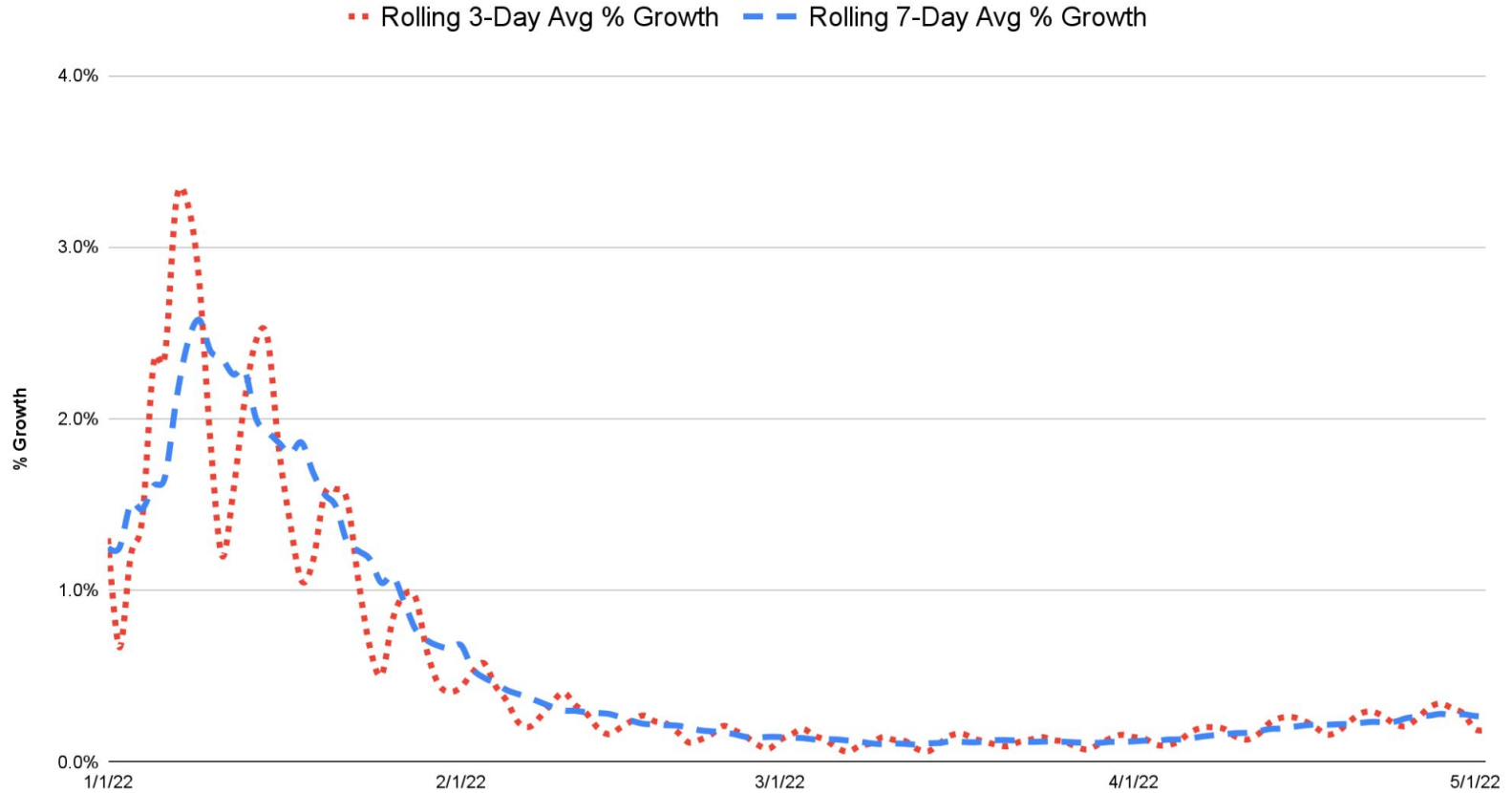


RESTART VERMONT

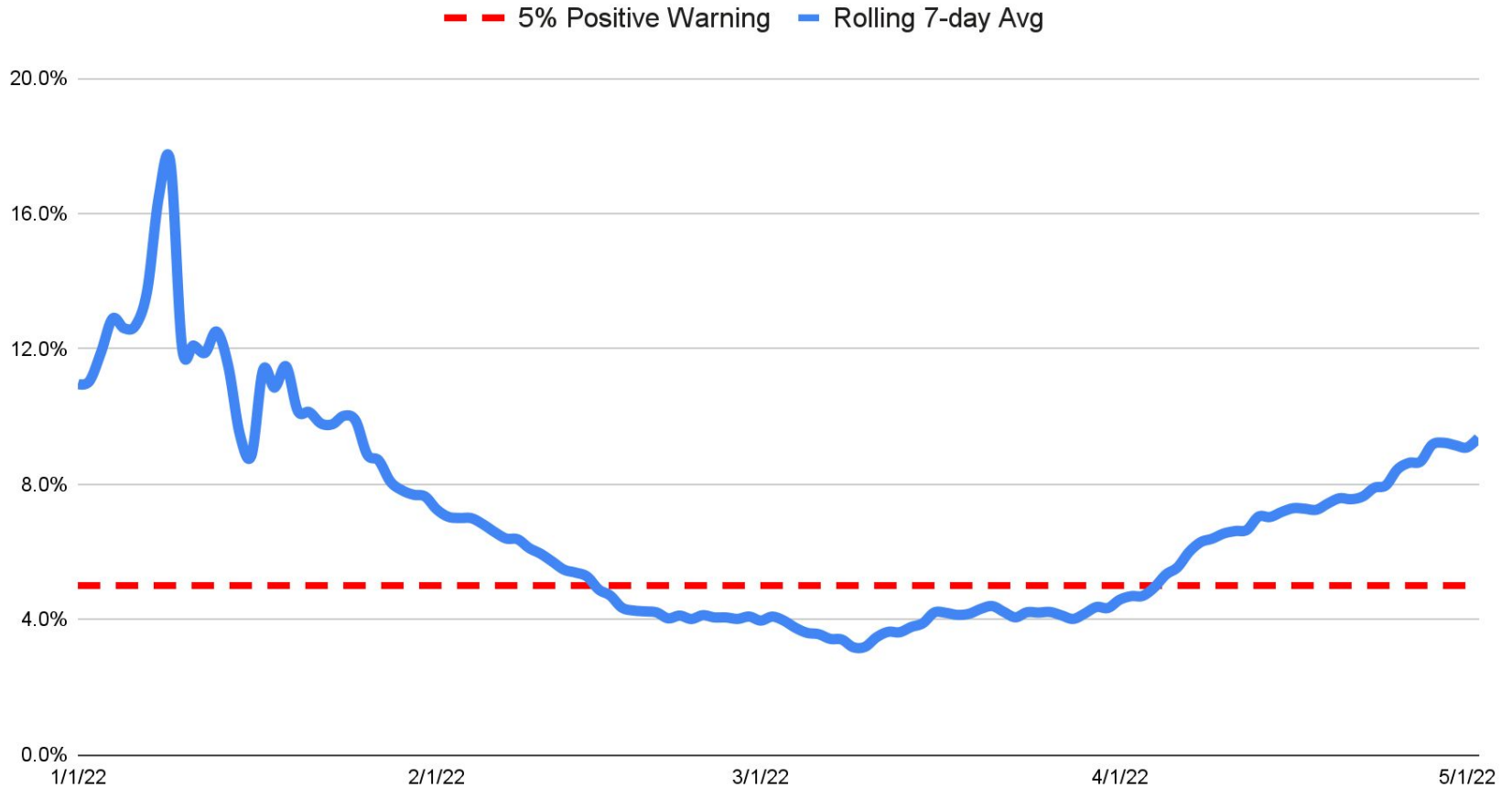
Reopening Metrics

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

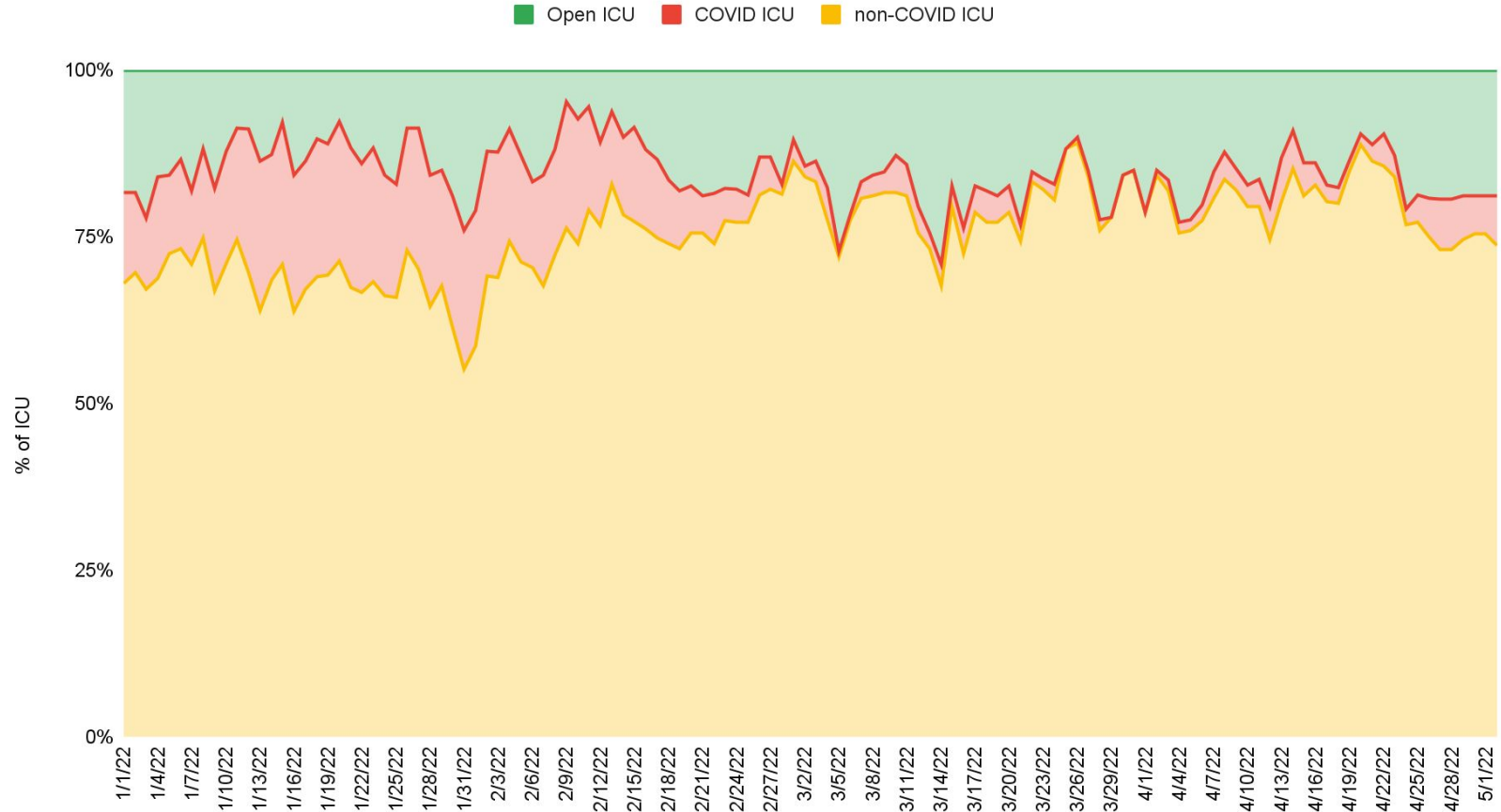


Test Positivity



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

Critical Care Beds



Vermont Testing

