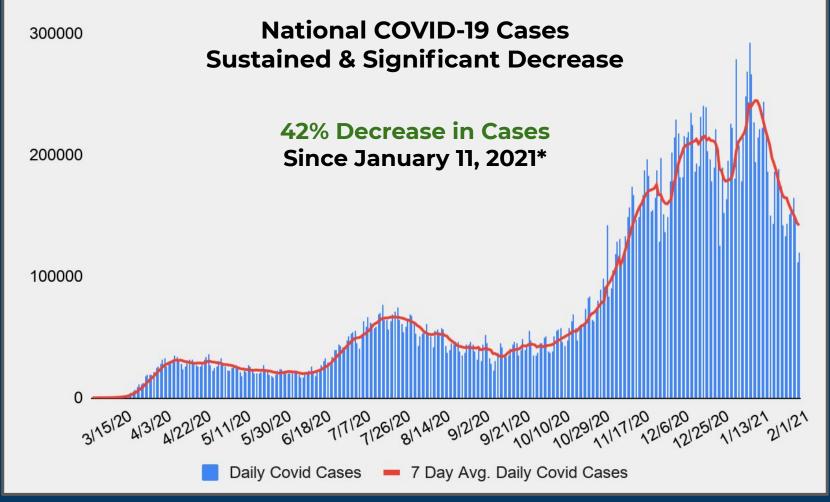
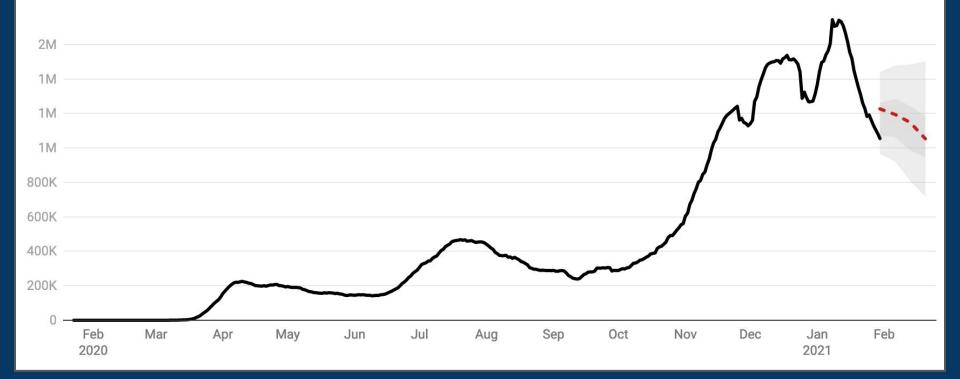
COVID-19 Modeling February 2, 2021

Presentation available at: dfr.vermont.gov



National 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.



National COVID-19 Infections 250,000 200,000 150,000 100,000 21 Million 22 Million 23 Million 24 Million 26 Million 25 Million Infections Infections Infections Infections Infections Infections . 50,000 (4 Days) (4 Days) (5 Days) (5 Days) (6 Days) (6 Days)

15

17

19

21

23

25

27

29

31

03

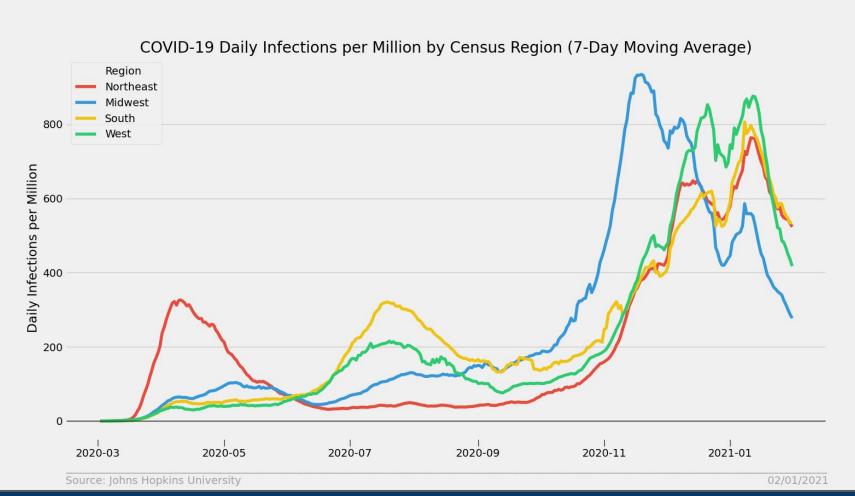
01 Jan 05

07

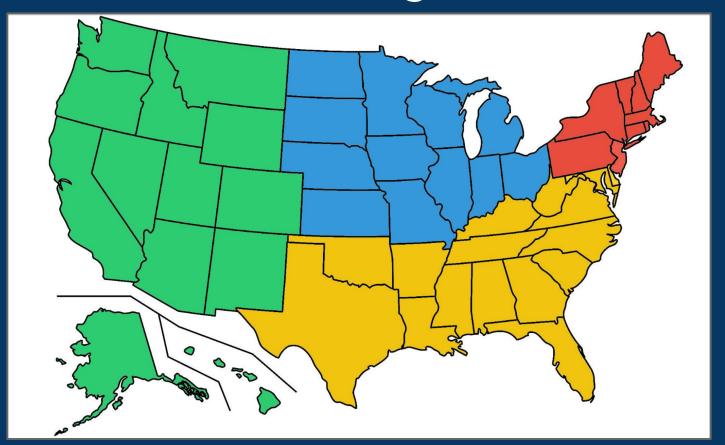
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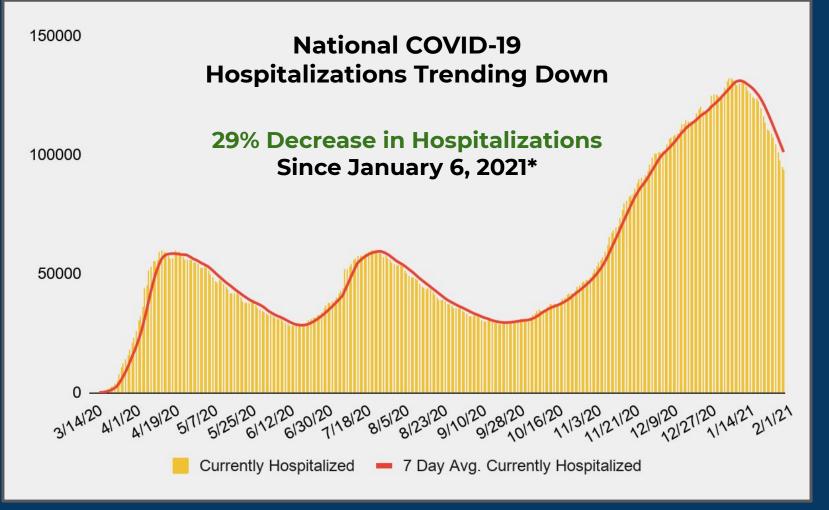
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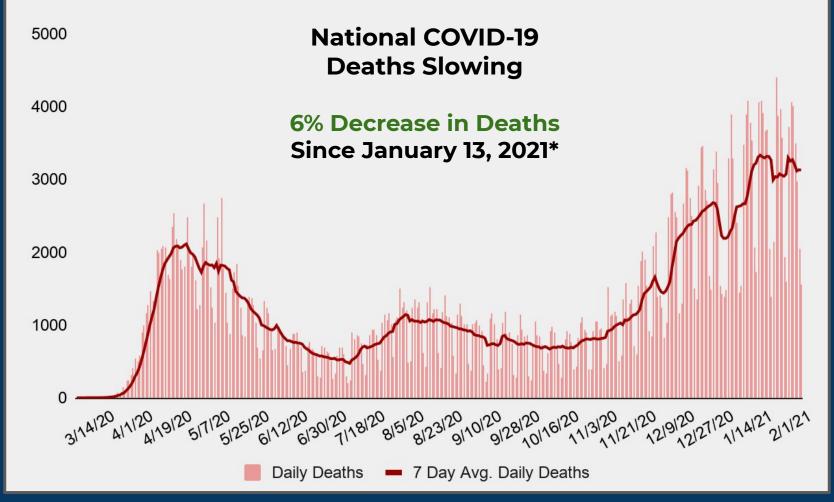
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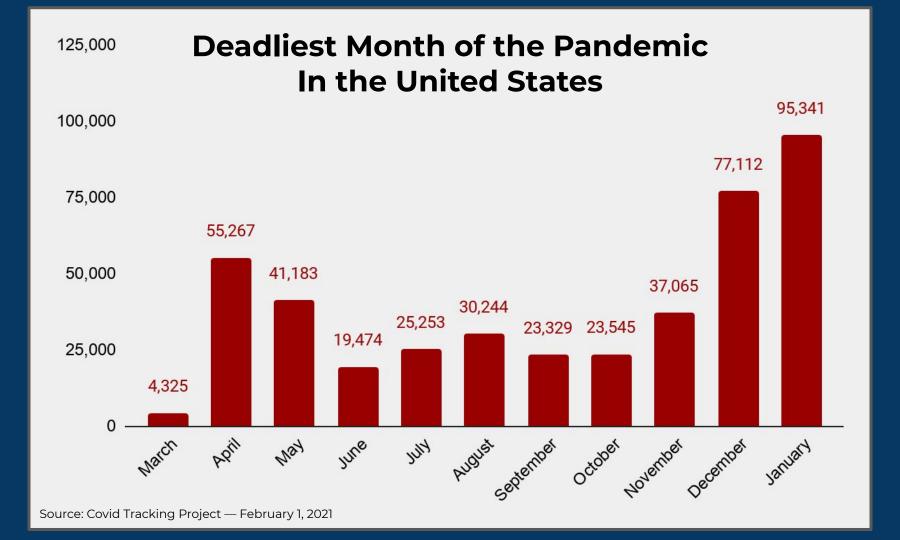


Census Regions









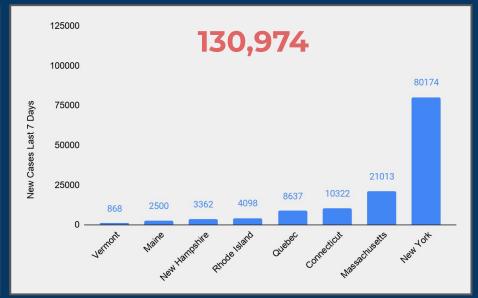
Regional Case Growth

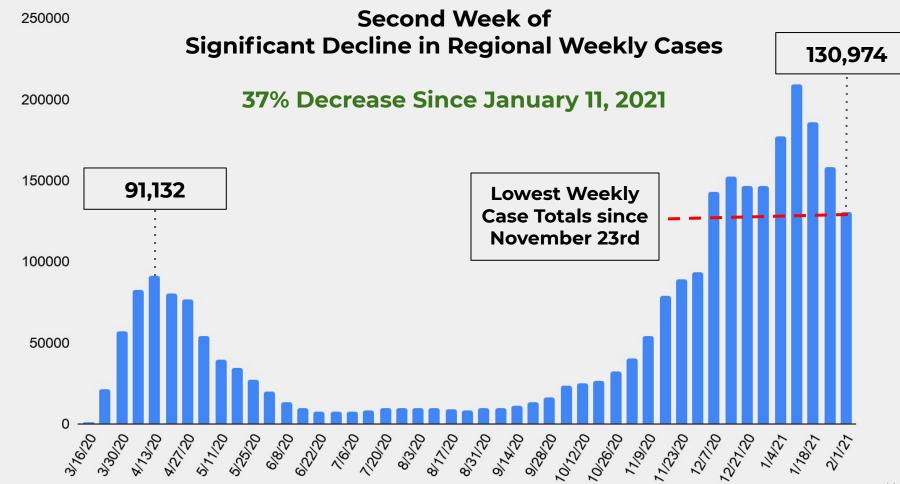
17.43% Decrease in New Cases

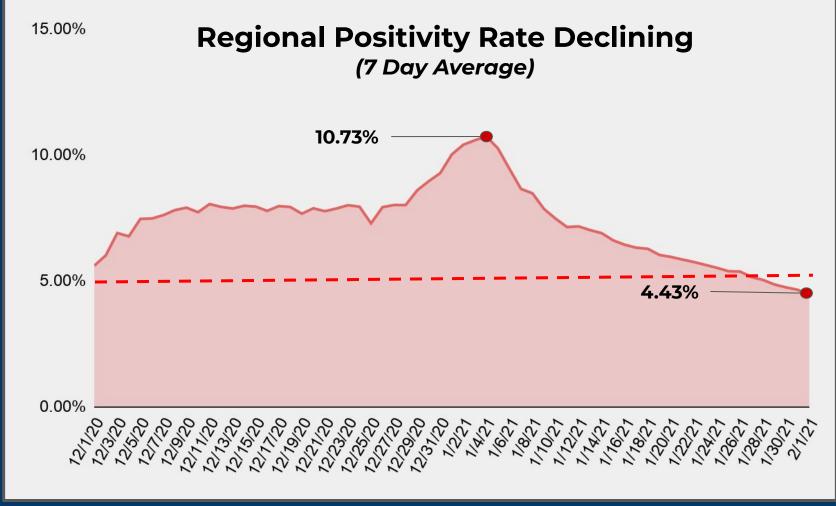
New Cases Jan 19th to Jan. 25th

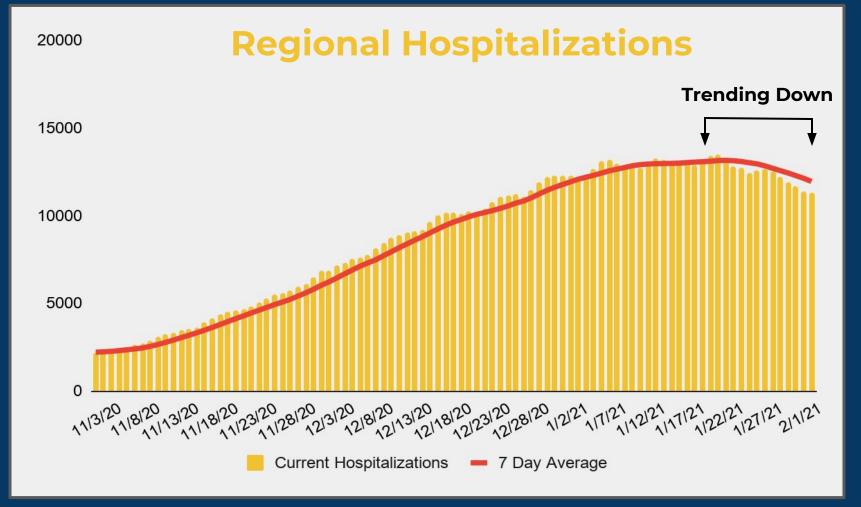
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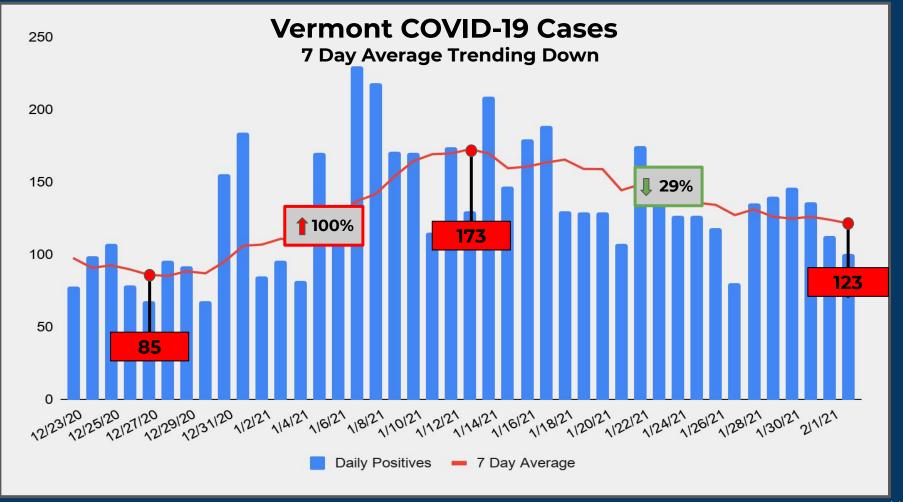
New Cases Jan 26th to Feb. 1st

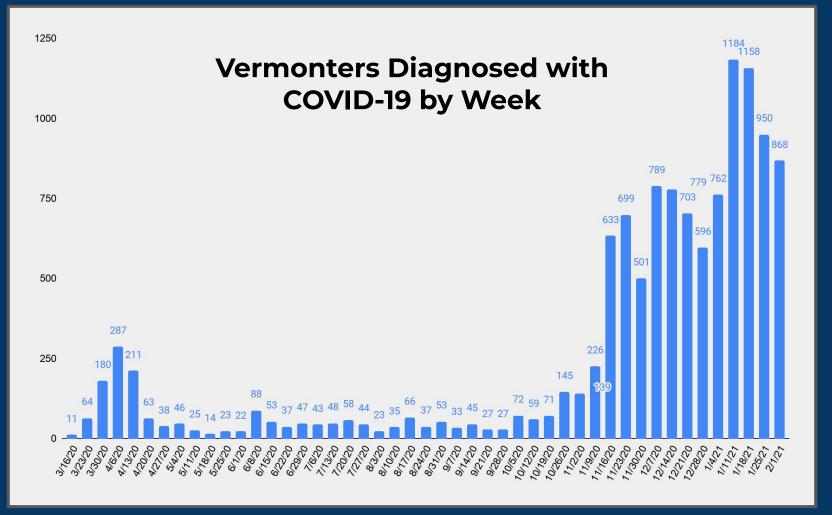


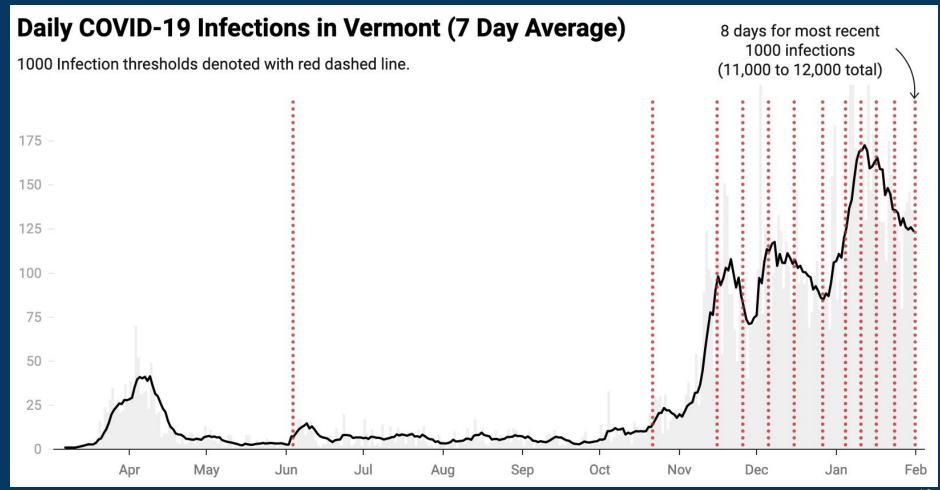






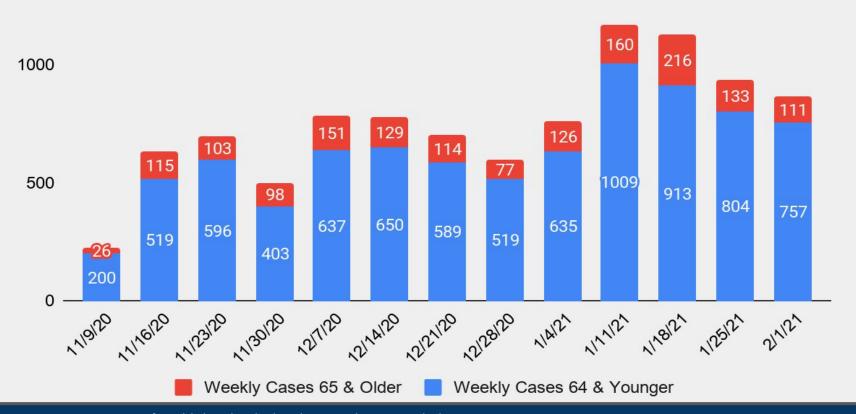








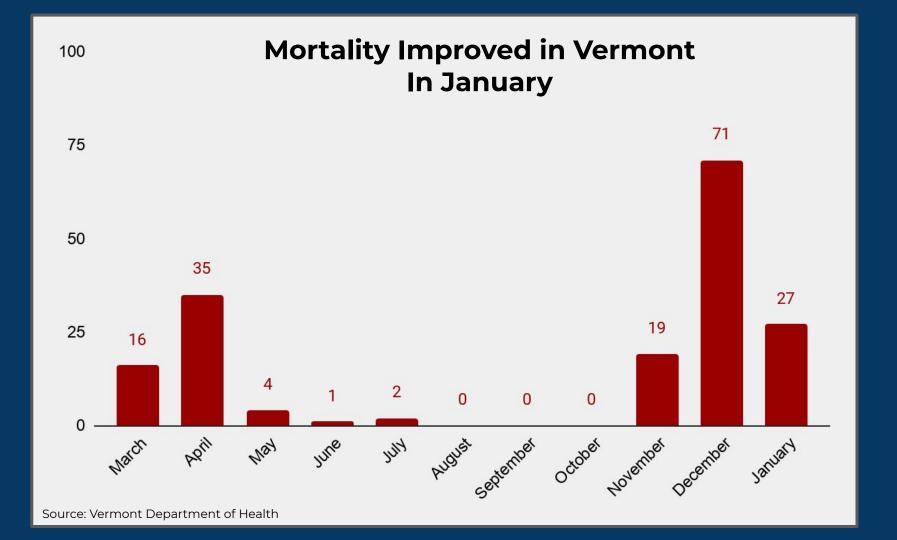
Higher-Risk Cases By Week



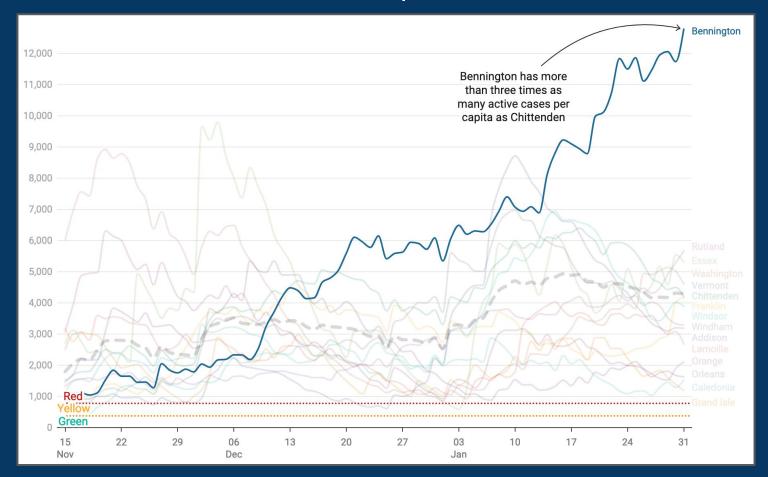
Active Outbreaks in Long Term Care Facilities

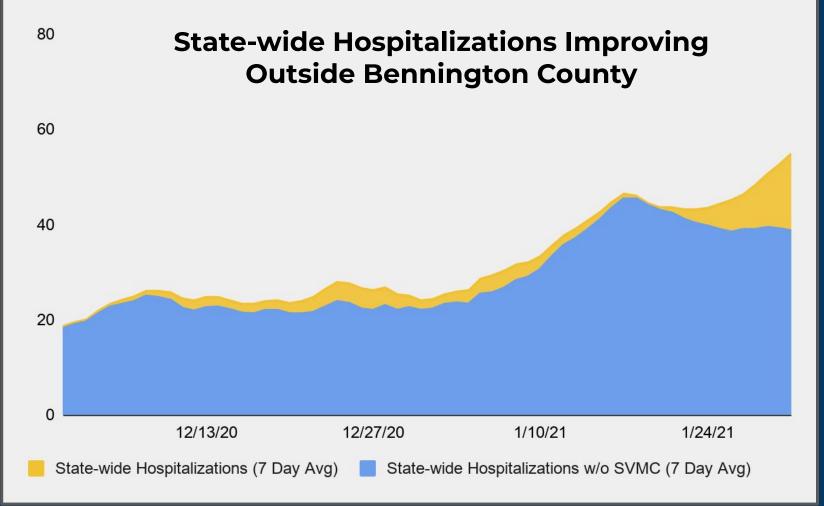
Facility Name	Total COVID-19 Cases	
Residence at Shelburne Bay, <i>Shelburne</i> 43		
Village at Cedar Hill, Windsor	20	
Lakeview Community Care Home, Burlington	13	
Vermont Veterans Home, Bennington	9	
Harbor Village, South Burlington	9	
LTCF D	8	
Valley Terrace, Hartford	7	
Brookdale at Fillmore Pond, Bennington	Not Shown	
Mountain View Center, Rutland	Not Shown	
The Residence at Quarry Hill, South Burlington	Not Shown	
Franklin County Rehab Center, St. Albans City	Not Shown	

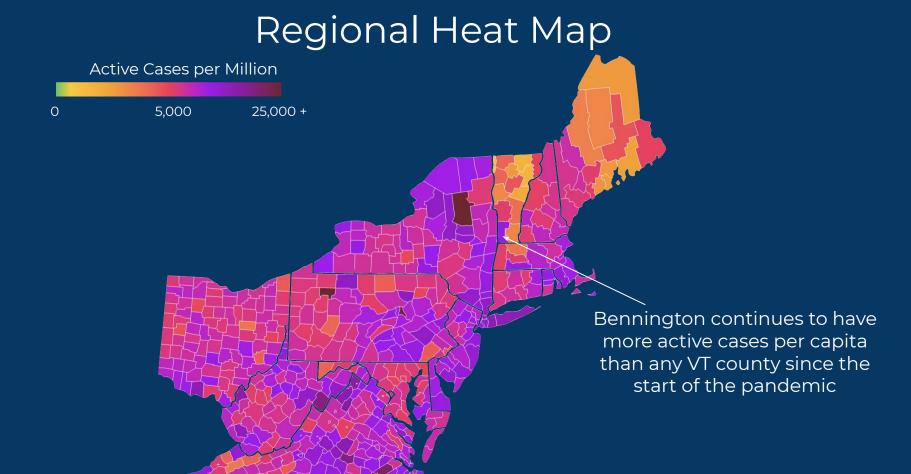
Source: Vermont Department of Health—February 1, 2021 (reporting Monday through previous Sunday); 'Active' defined as less than 28 days since most recent case's specimen collection date or illness start date (whichever is later); *privacy suppressions include facility w/ <25 staff and residents and/or >75% of facility infected -- there are three active outbreaks that are not included as a result.



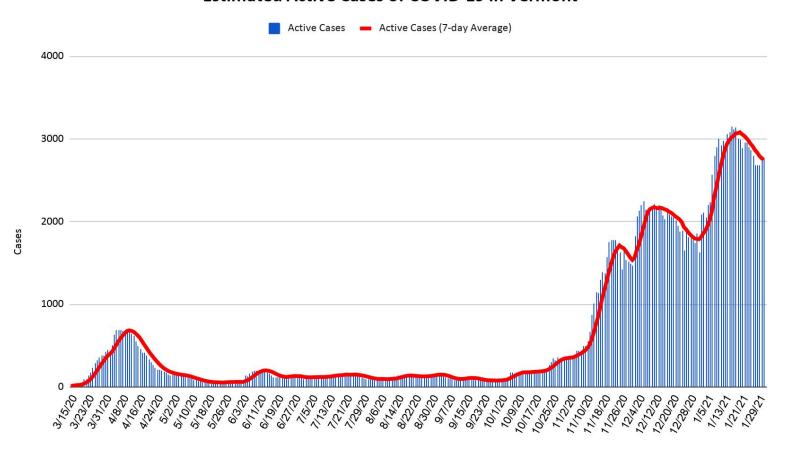
Estimated Active Cases per Million in Vermont



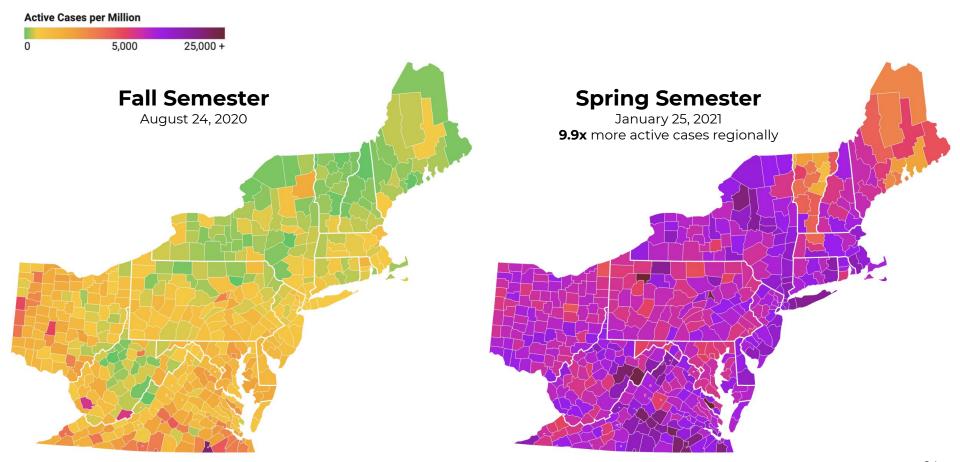


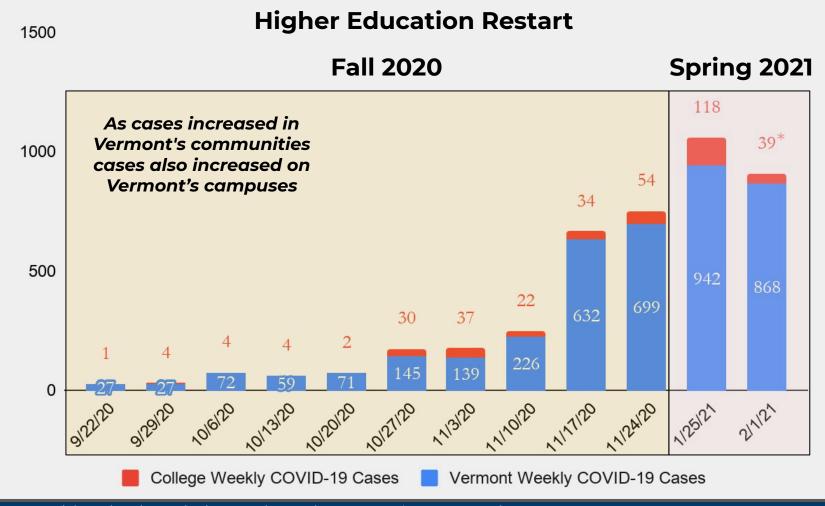


Estimated Active Cases of COVID-19 in Vermont



Regional Prevalence 1 Week Preceding Fall 2020 & Spring 2021 Terms

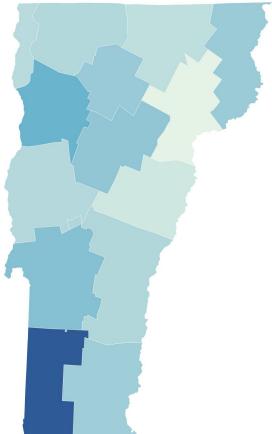




Vermont Weekly Cases by County (per 100,000)

Results Reported January 18 - 25

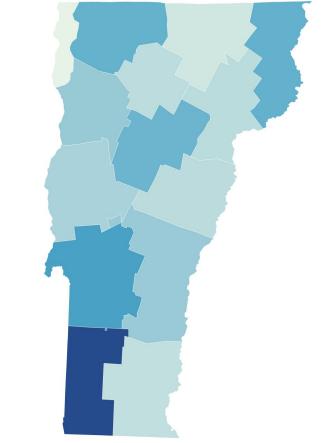




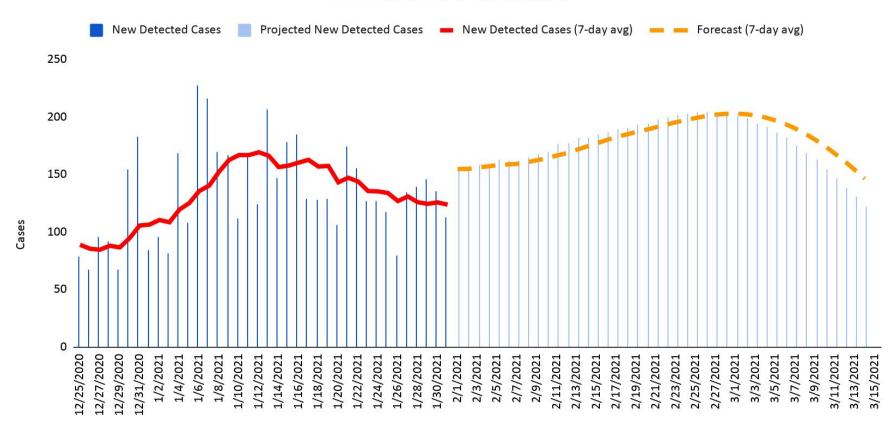
Vermont Weekly Cases by County (per 100,000)

Results Reported January 26 to February 1

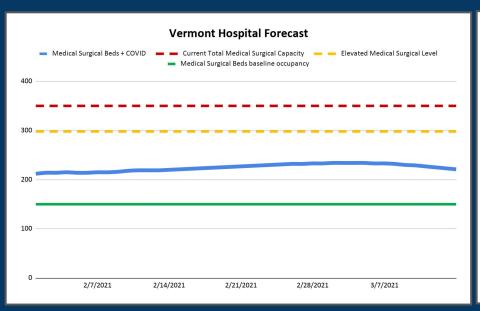


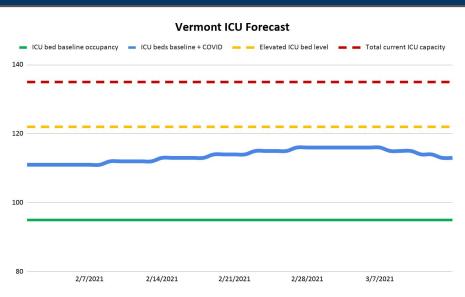


Vermont Forecast



Hospital & ICU Capacity Forecasts

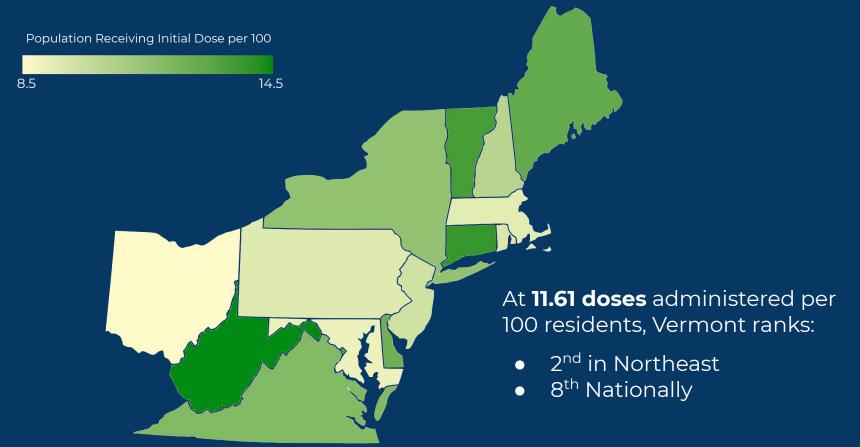


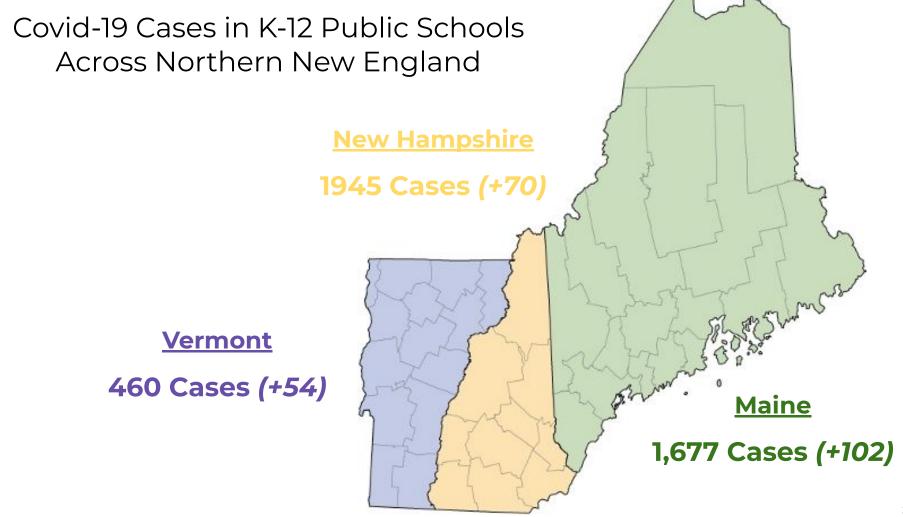


Measuring Vermont's Pandemic Response

Rank (Lowest)	Positivity (7 Day Avg.)	Cases (7 Day Moving Avg.)	Hospitalizations (7 Day Moving Avg.)	Fatalities (7 Day Moving Avg.)
7	Wyoming	Hawaii	Hawaii	Alaska
2	Hawaii	North Dakota	Alaska	Vermont
3	Vermont	Oregon	North Dakota	North Dakota
4	Alaska	Minnesota	Minnesota	Minnesota
5	D.C.	Michigan	Oregon	Oregon
6	Rhode Island	South Dakota	Wyoming	Utah
7	Massachusetts	Alaska	Montana	Nebraska
8	Oregon	Vermont	Vermont	Colorado

Regional Vaccination Map





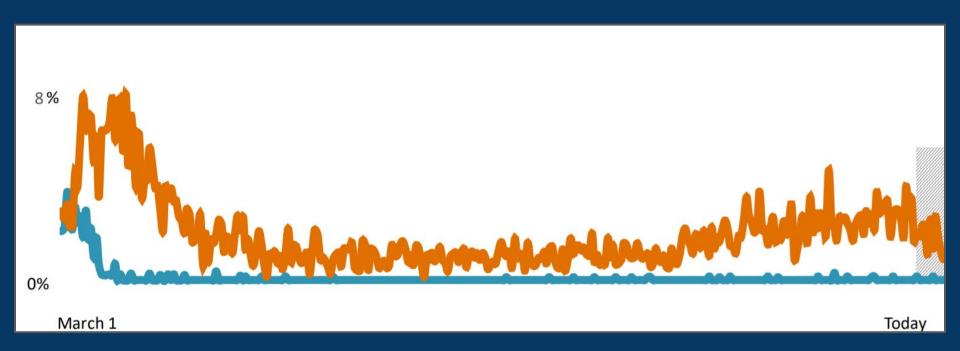
RESTART VERMONT

Reopening Metrics

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

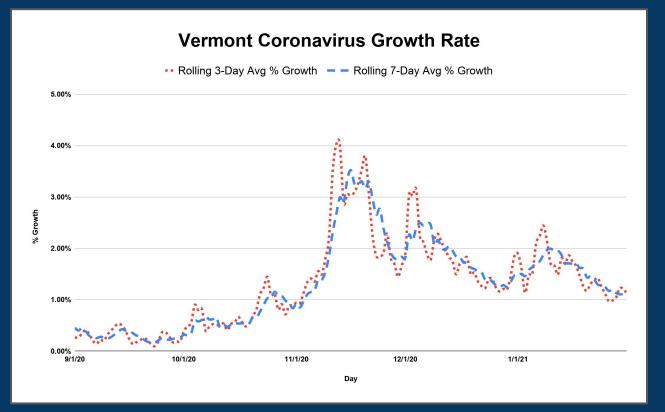
Data Point 1: Syndromic Surveillance

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



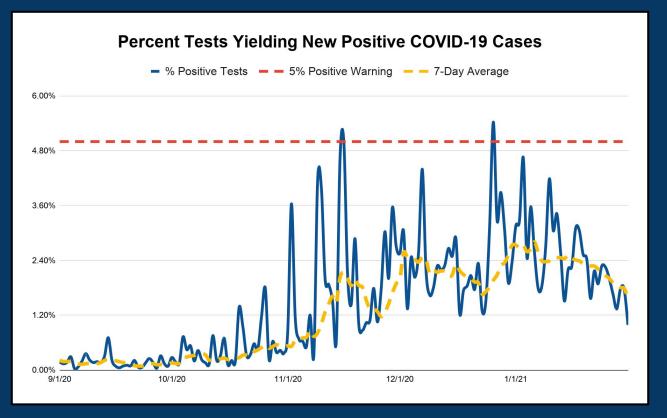
Data Point 2: Viral Growth and Reproductive Rates

- **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



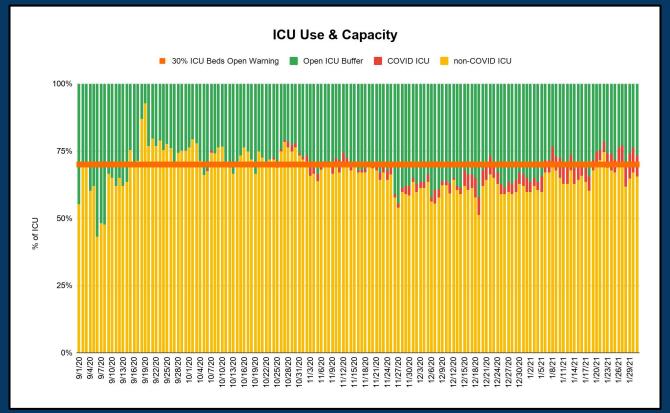
Data Point 3: Percentage of New Positive Tests

- **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

