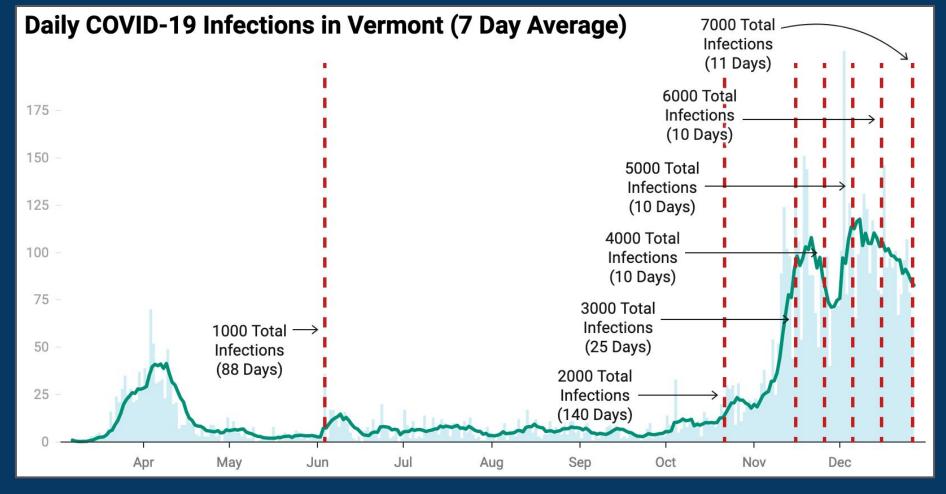
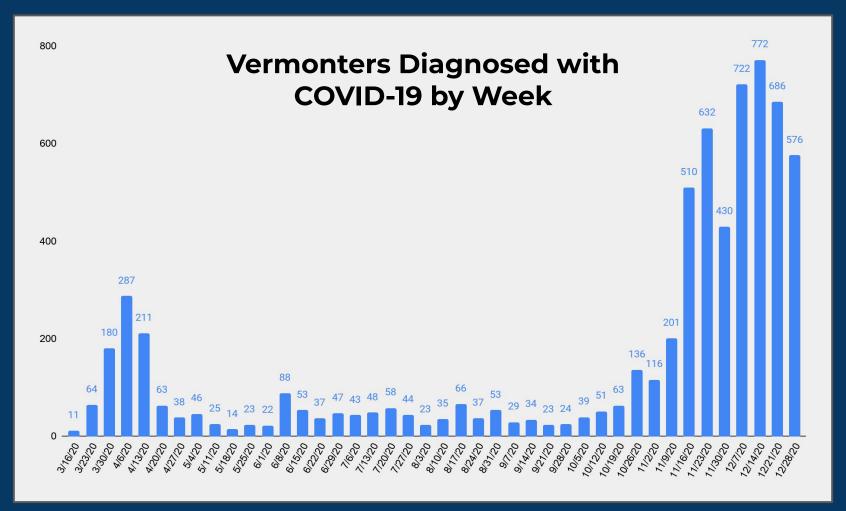
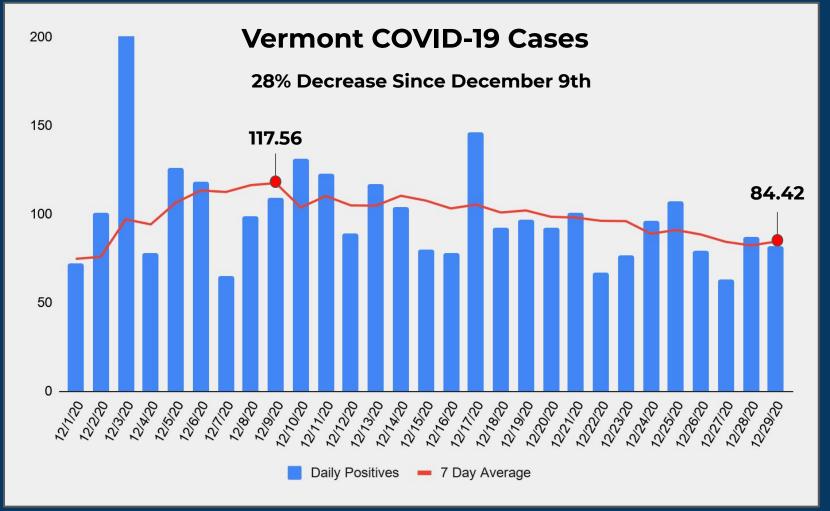
COVID-19 Modeling December 29, 2020

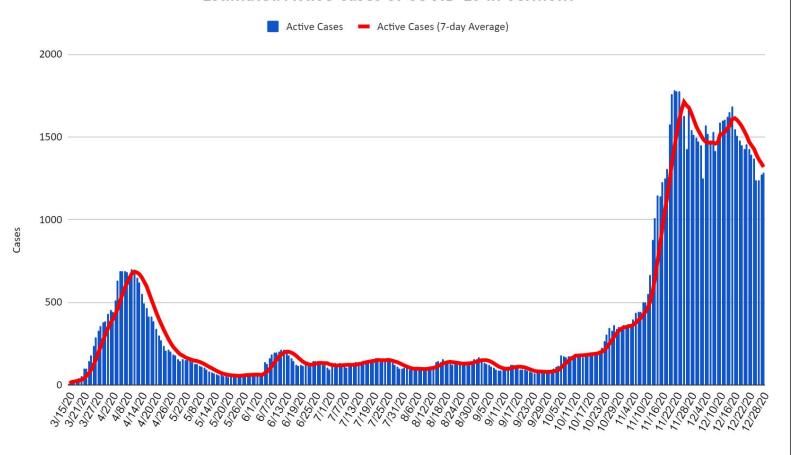
Presentation available at: dfr.vermont.gov

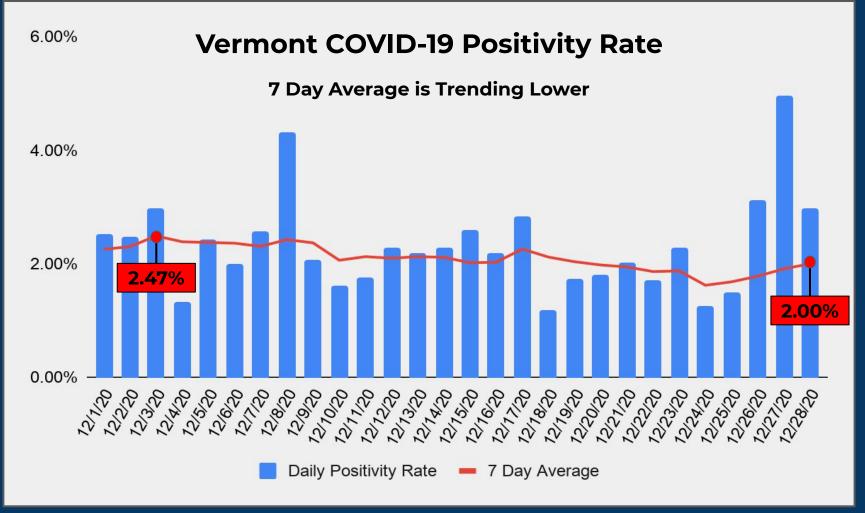






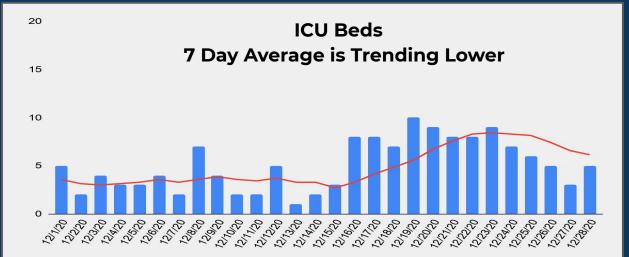
Estimated Active Cases of COVID-19 in Vermont

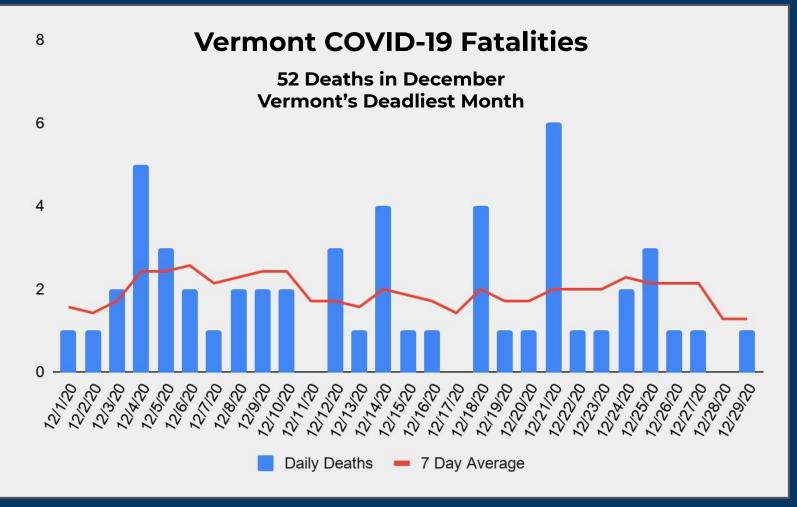




50 Medical/Surgical Beds 7 Day Average is Stable 40 30 20 12/14/20 15/20 15/20 212/2/202 12/6/20 STATE OF THE PARTY 12/8/20 27200 27200 12,000 21/20 27800 12,1020 121/130 12/2/20 12/3/20 12/19/20

Vermont COVID-19 Hospitalizations

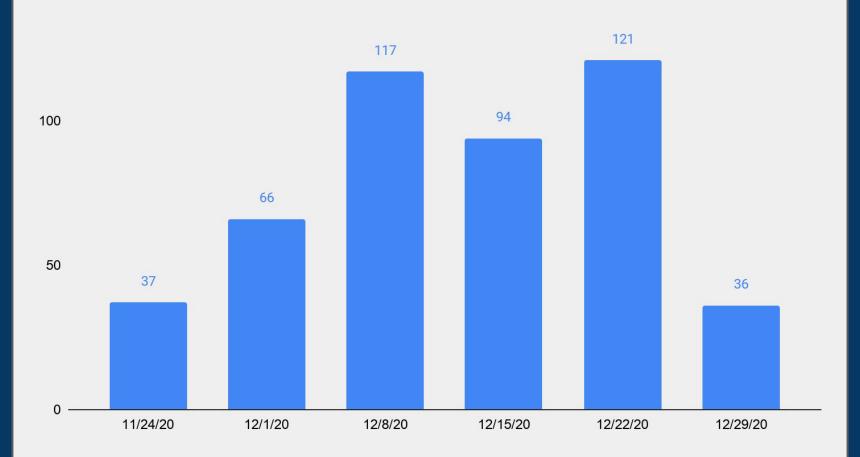




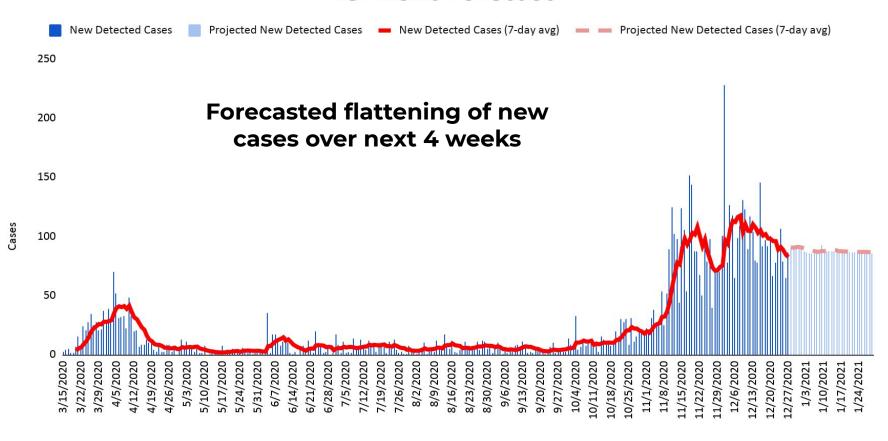
Active Outbreaks in Long Term Care Facilities

Facility Name	Total COVID-19 Cases	Change from Prior Week
Elderwood at Burlington, Burlington	125	+2
Saint Albans Healthcare & Rehab Center, Saint Albans	87	+2
Rutland Health & Rehab, <i>Rutland</i>	67	0
Our Lady of Providence, <i>Winooski</i>	47	+4
Berlin Health & Rehab, <i>Berlin</i>	34	0
Craftsbury Community Care Center, <i>Craftsbury</i>	28	+11
Converse Home Assisted Living, Burlington	15	+]
The Residence at Shelburne Bay, Shelburne	14	+14 (new)
Residence at Quarry Hill, South Burlington	12	0
Holton Home, <i>Brattleboro</i>	8	+2
Cathedral Square, Burlington	7	0
Total	513*	+36

Weekly Long Term Care Facility Totals

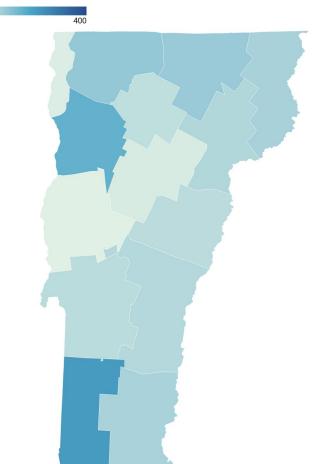


Vermont Forecast



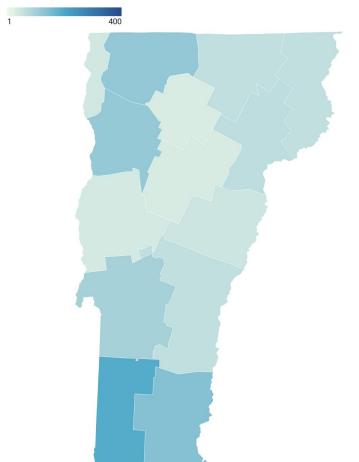
Vermont Weekly Cases by County (per 100,000)

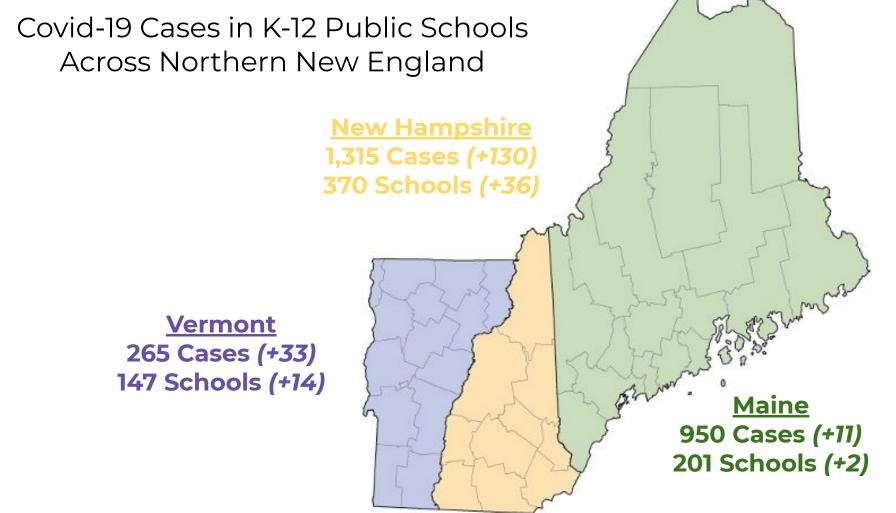
Results Reported December 15 to 21



Vermont Weekly Cases by County (per 100,000)

Results Reported December 22 to 28





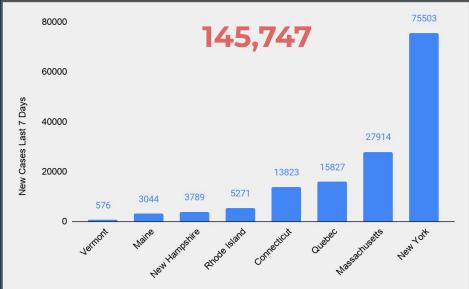
Regional Case Growth

0.58% Decrease in New Confirmed Cases

Positive Cases Dec. 15th to Dec. 21st

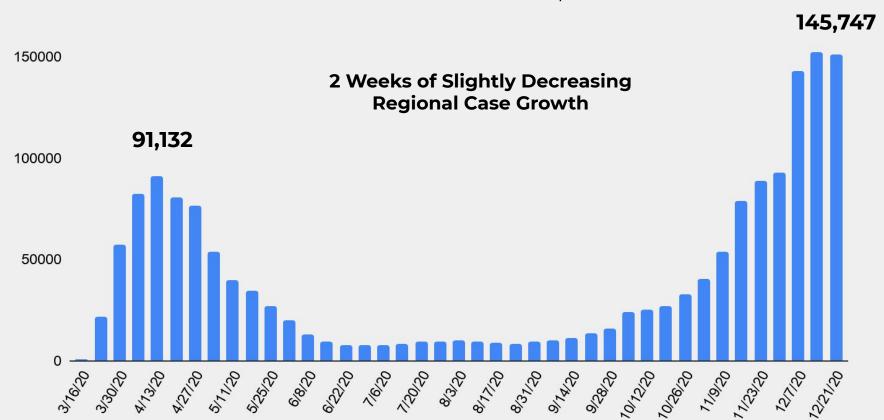
Positive Cases Dec. 22nd to Dec. 28th

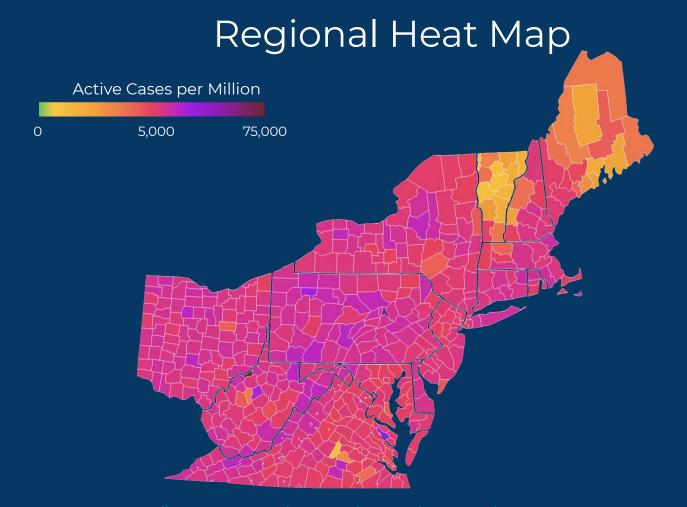






Northeast Case Growth By Week Since March 16, 2020

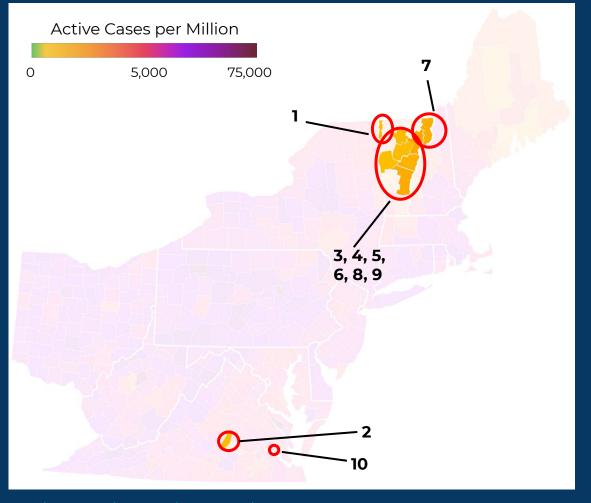




Regional Map as of December 29th

10 **Lowest** Counties in Region by Active Cases Per Million

- 1) Grand Isle (VT): 990
- 2) Cumberland (VA): 1,069
- 3) Addison (VT): 1,087
- 4) Washington (VT): 1,178
- 5) Lamoille (VT): 1,186
- 6) Orange (VT): 1,567
- 7) Essex (VT): 1,732
- 8) Windsor (VT): 1,877
- 9) Williamsburg (VA): 1,968
- 10) Caledonia (VT): 1,978



U.S. and Vermont Air Travel Holiday Travel 2020 & 2019



TSA Screening
Nationwide

~58% Reduction

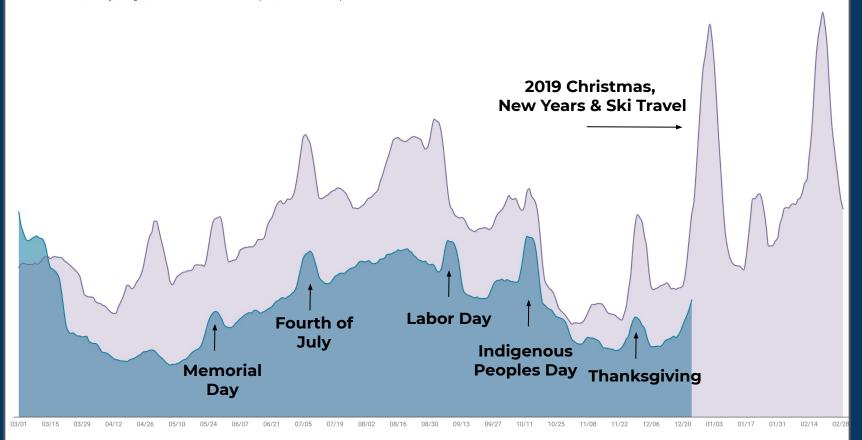


BTV International Airport Passengers

> ~80% Reduction



Estimate of visitors uses 7-day average # mobile devices from out of state (3/1/2019 - 12/24/2020)



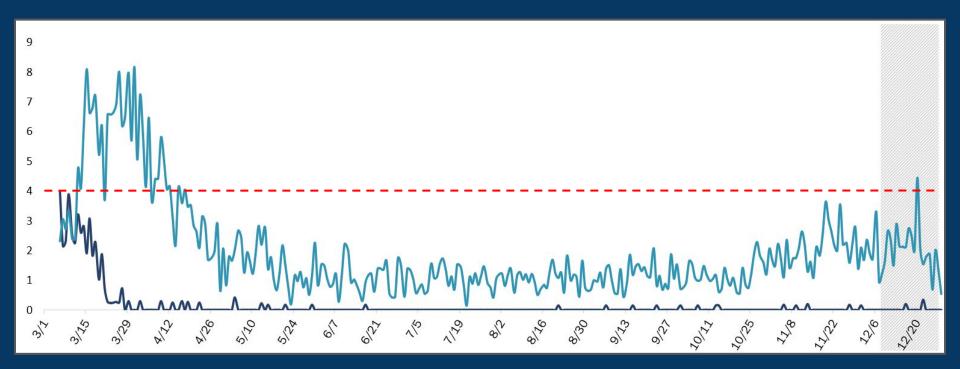
RESTART VERMONT

Reopening Metrics

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

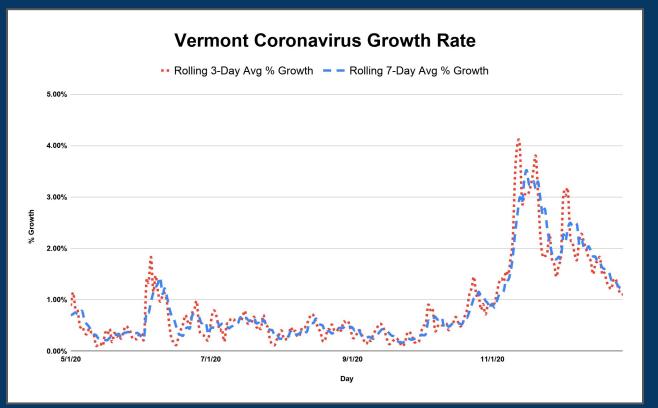
Data Point 1: Syndromic Surveillance

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



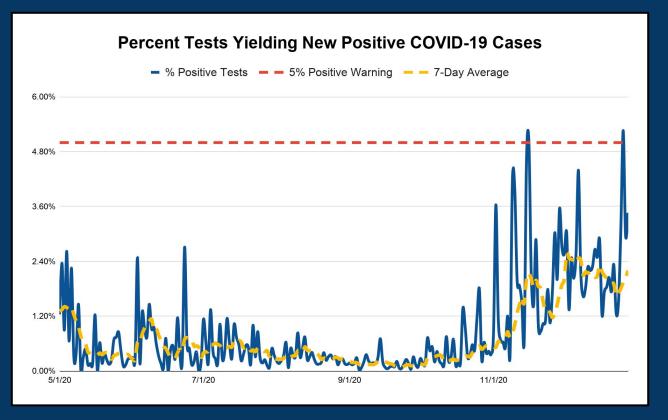
Data Point 2: Viral Growth and Reproductive Rates

- 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



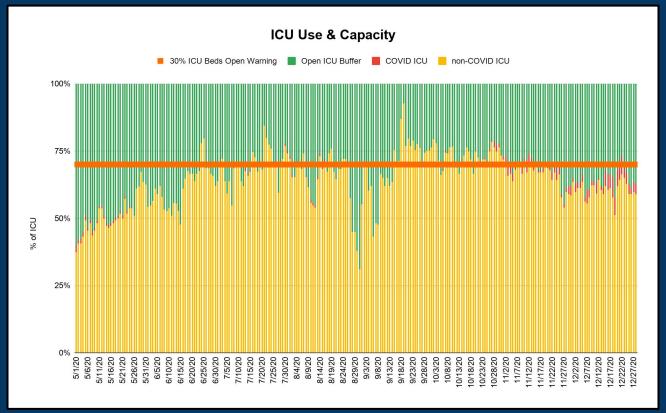
Data Point 3: Percentage of New Positive Tests

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

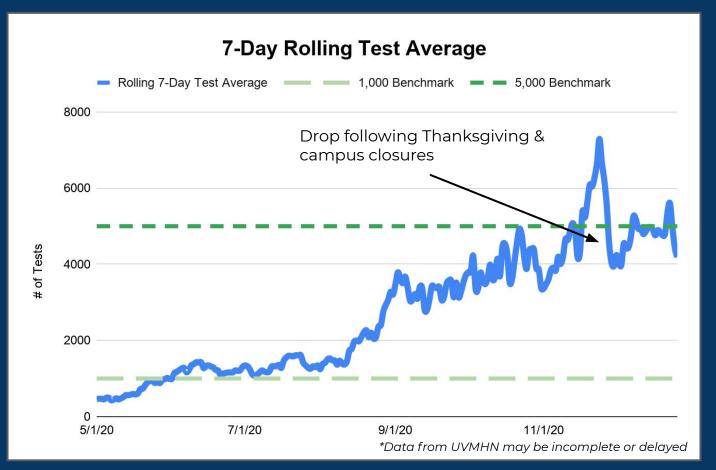


Data Point 4: Hospital & Critical Care Beds

- **Summary:** Number of occupied and unoccupied medical surgical and ICU beds
- Warning Flags: Reduction in ICU open beds to less than 30%



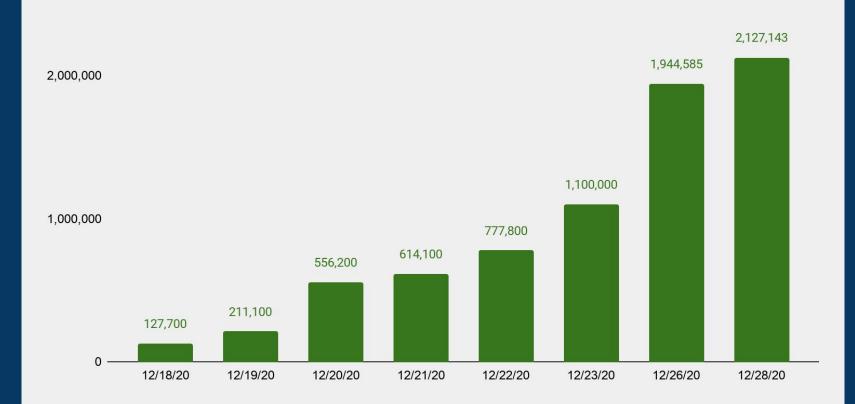
Vermont Testing



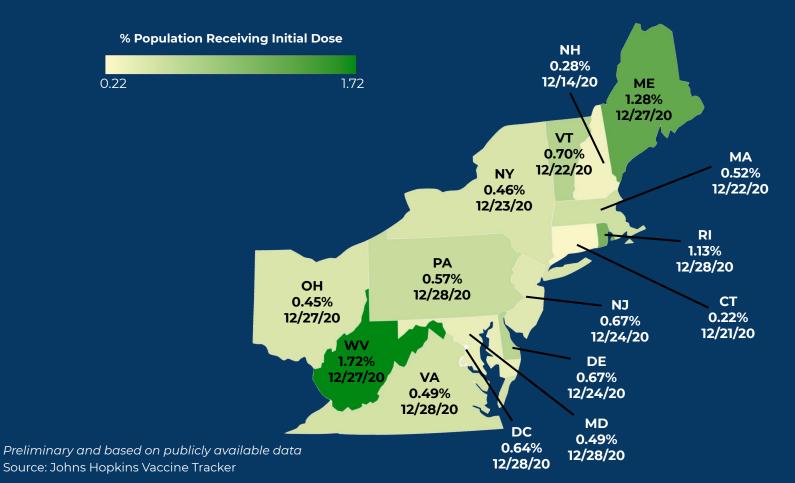
Vaccine Updates

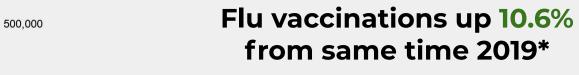
3,000,000

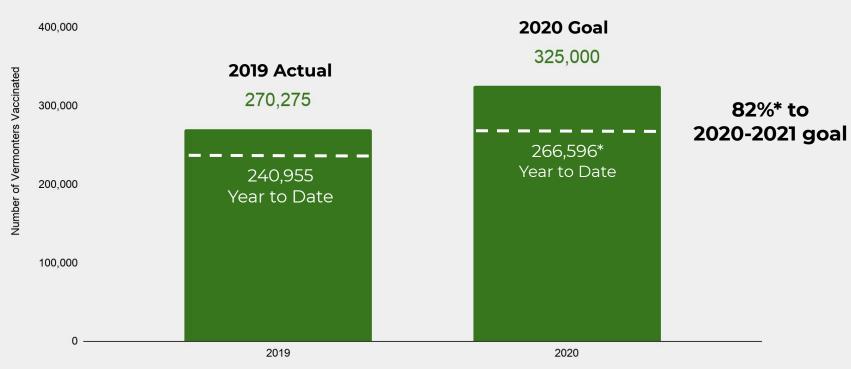
Number of Americans Receiving Initial Vaccine Dose



Regional Vaccination Map







Year

*Data from UVMHN may be incomplete or delayed