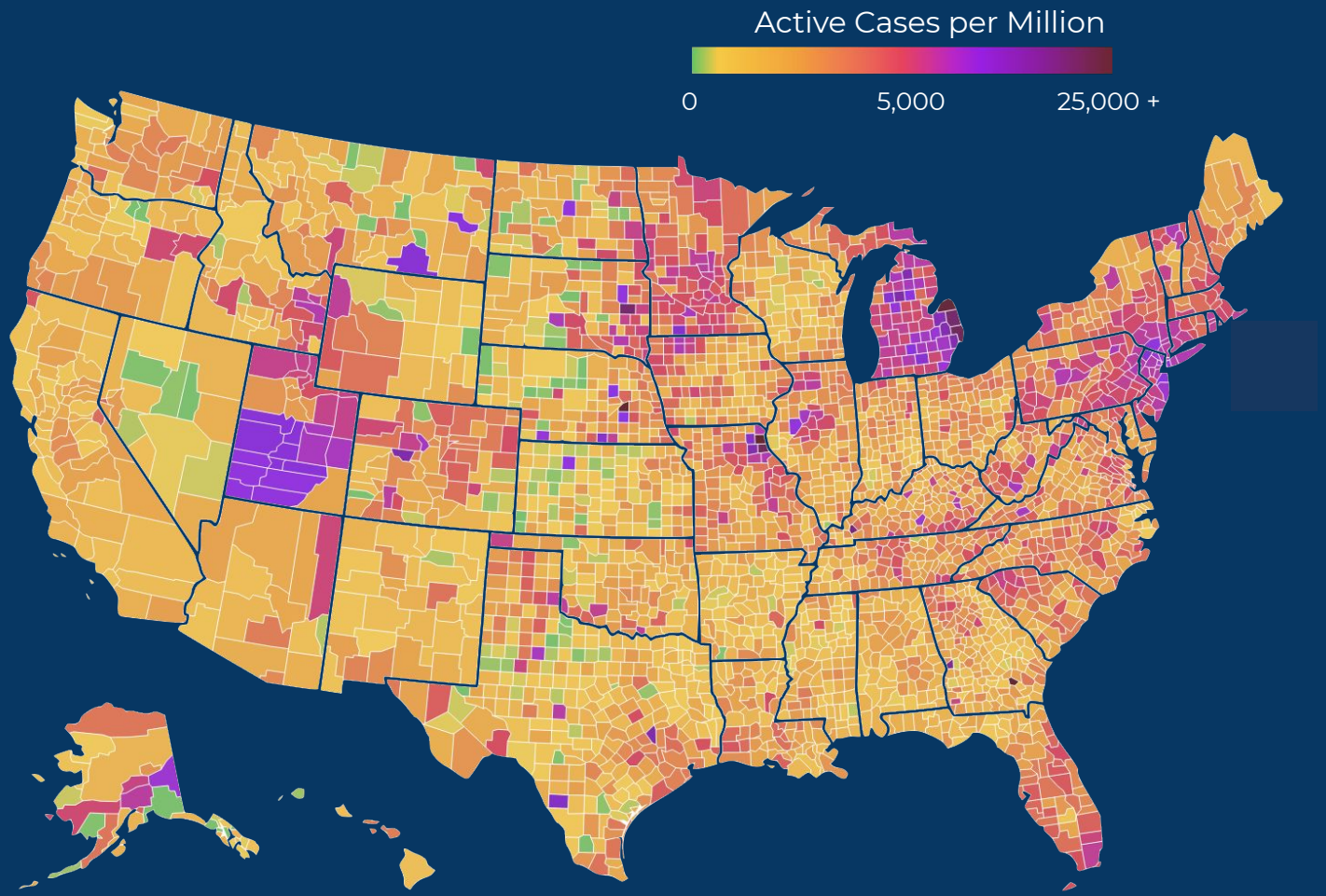
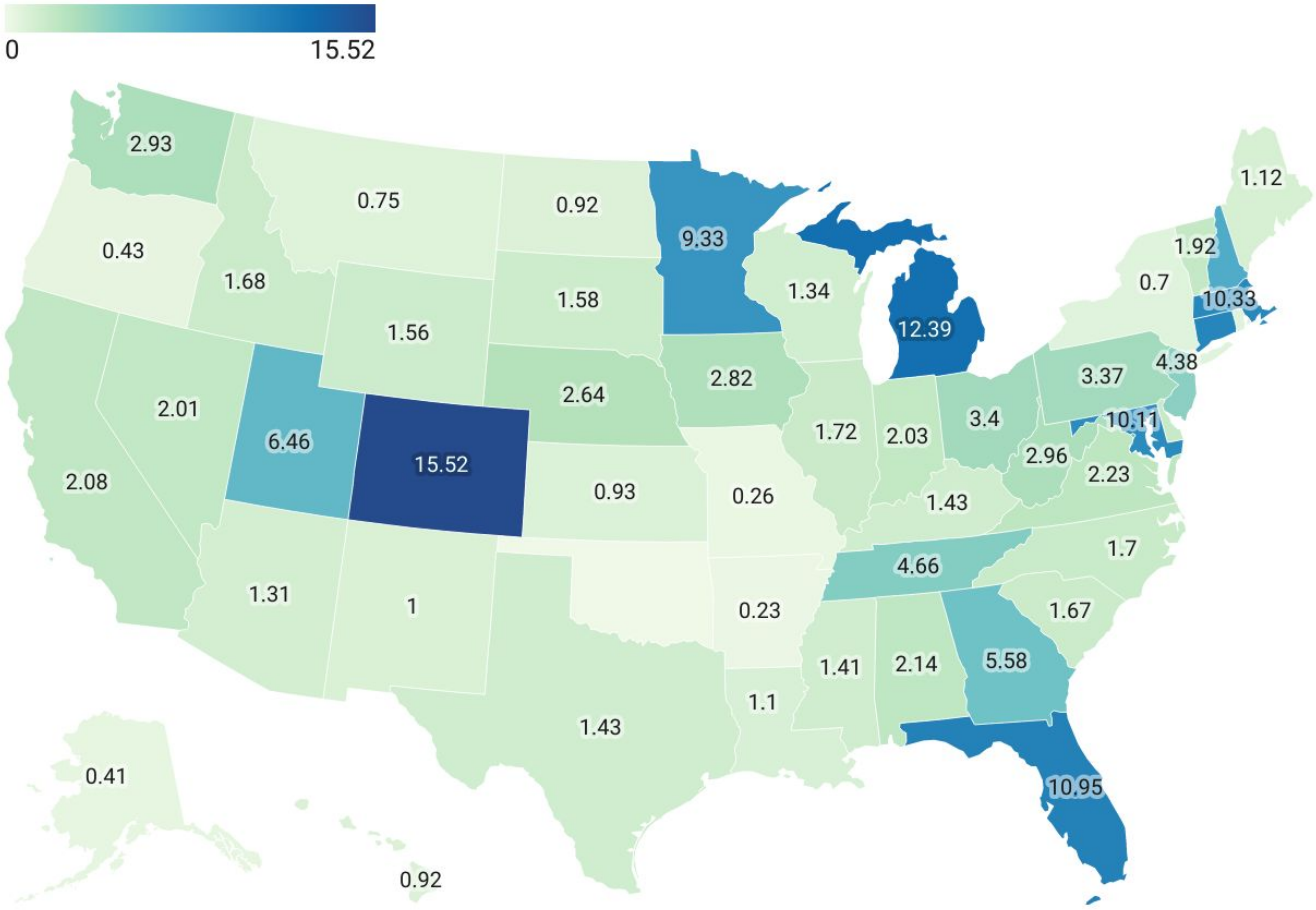
COVID-19 Modeling
April 2, 2021

Presentation available at:
dfr.vermont.gov



Souce: Johns Hopkins University; DFR Active Case Algotherm

Confirmed B.1.1.7 Cases per 100,000 Residents



Souce: Johns Hopkins University

Ranking	State	Cases Per 100K (7-Day Average)	% Started or Completed Vaccination (Ranking)
1	Michigan	56.7	29.2% (34th)
2	New Jersey	49.7	34.1% (8th)
3	New York	41.6	31.4%(23rd)
4	Connecticut	35.5	36.0%(3rd)
5	Rhode Island	34.0	33.2%(10th)
6	Massachusetts	32.7	34.9%(6th)
7	Pennsylvania	31.8	34.4%(13th)
8	Delaware	29.1	31.8% (17th)
9	Vermont	28.5	34% (9th)
10	New Hampshire	27.9	36.8% (2nd)

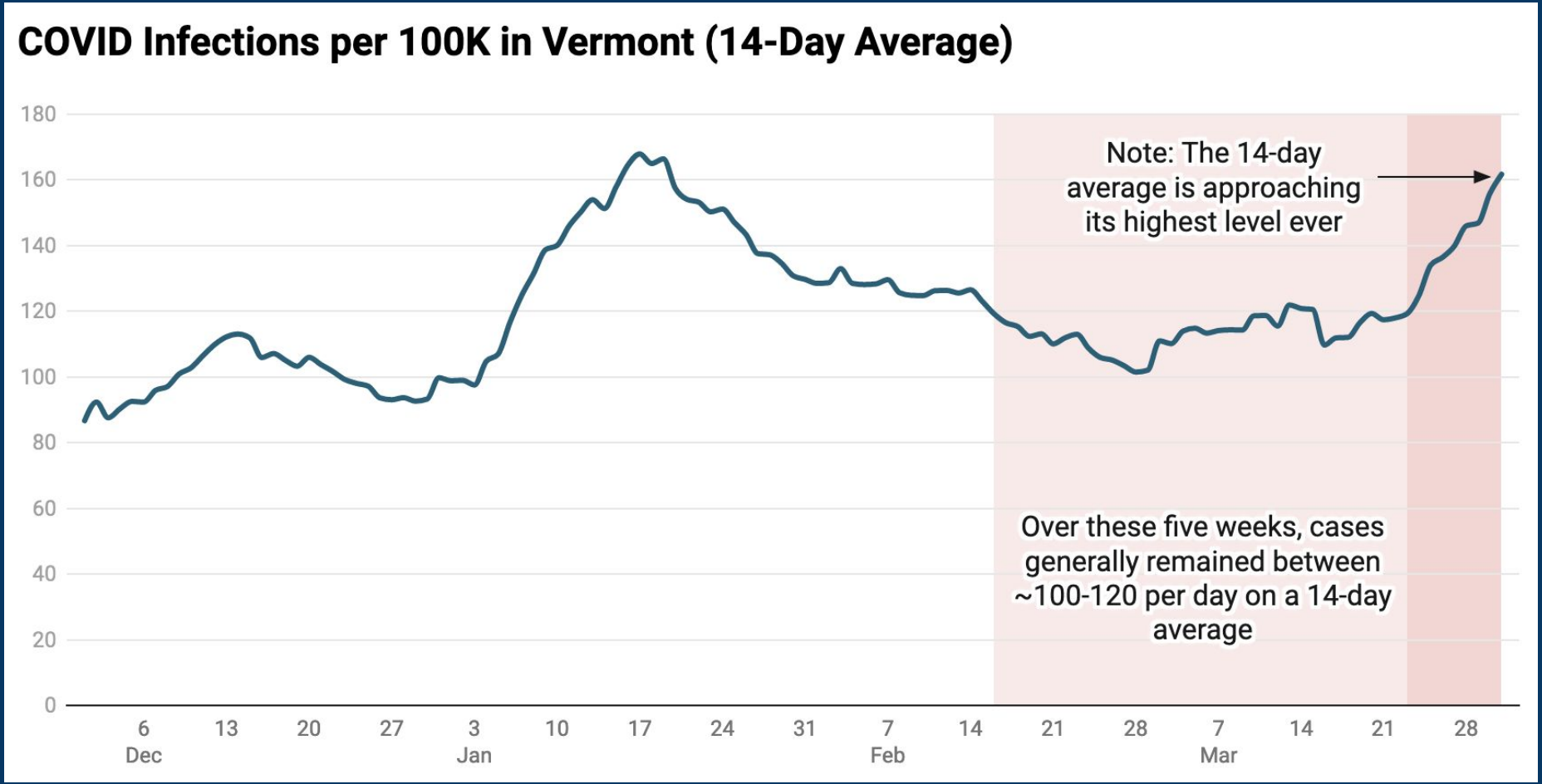
Souce: State Health Departments & CDC

Regional COVID-19 Metrics

State	Infection Rate Per 100K	Growth Since March 1st	Hospitalized (14-Day Change)	Deaths (14-Day Change)
Connecticut	35.5	+22.85%	+20%	-38%
Maine	16.3	+11.08%	-3%	+188%*
Massachusetts	32.7	+34.31%	+14%	-4%
New Hampshire	27.9	+30.57%	-6%	-33%
New York	41.6	+11.08%	0%	-6%
Rhode Island	34.0	+14.53%	-7%	-55%
Vermont	28.5	+85.61%	-2%	-17%

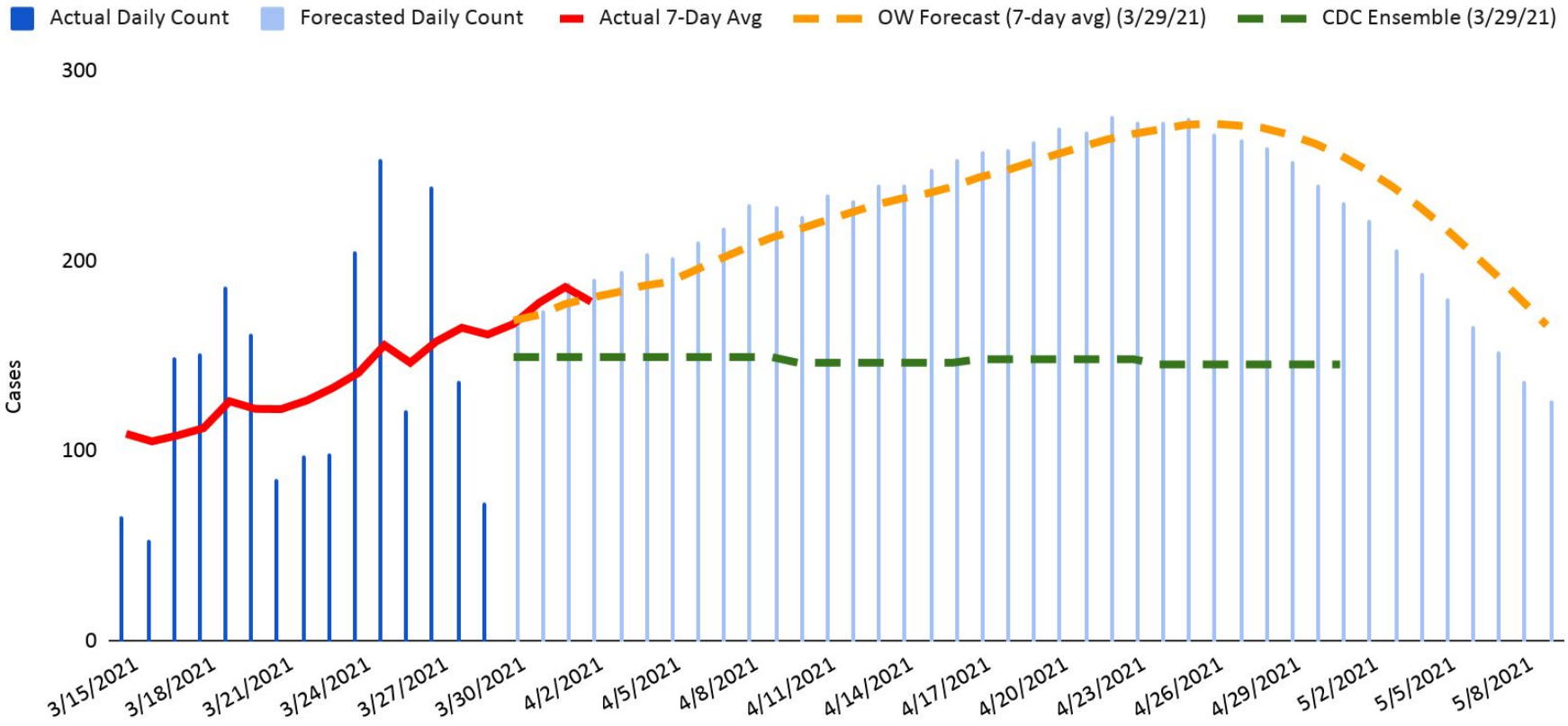
* Large percentage shift but small change in the absolute value: 0.6 to 1.7

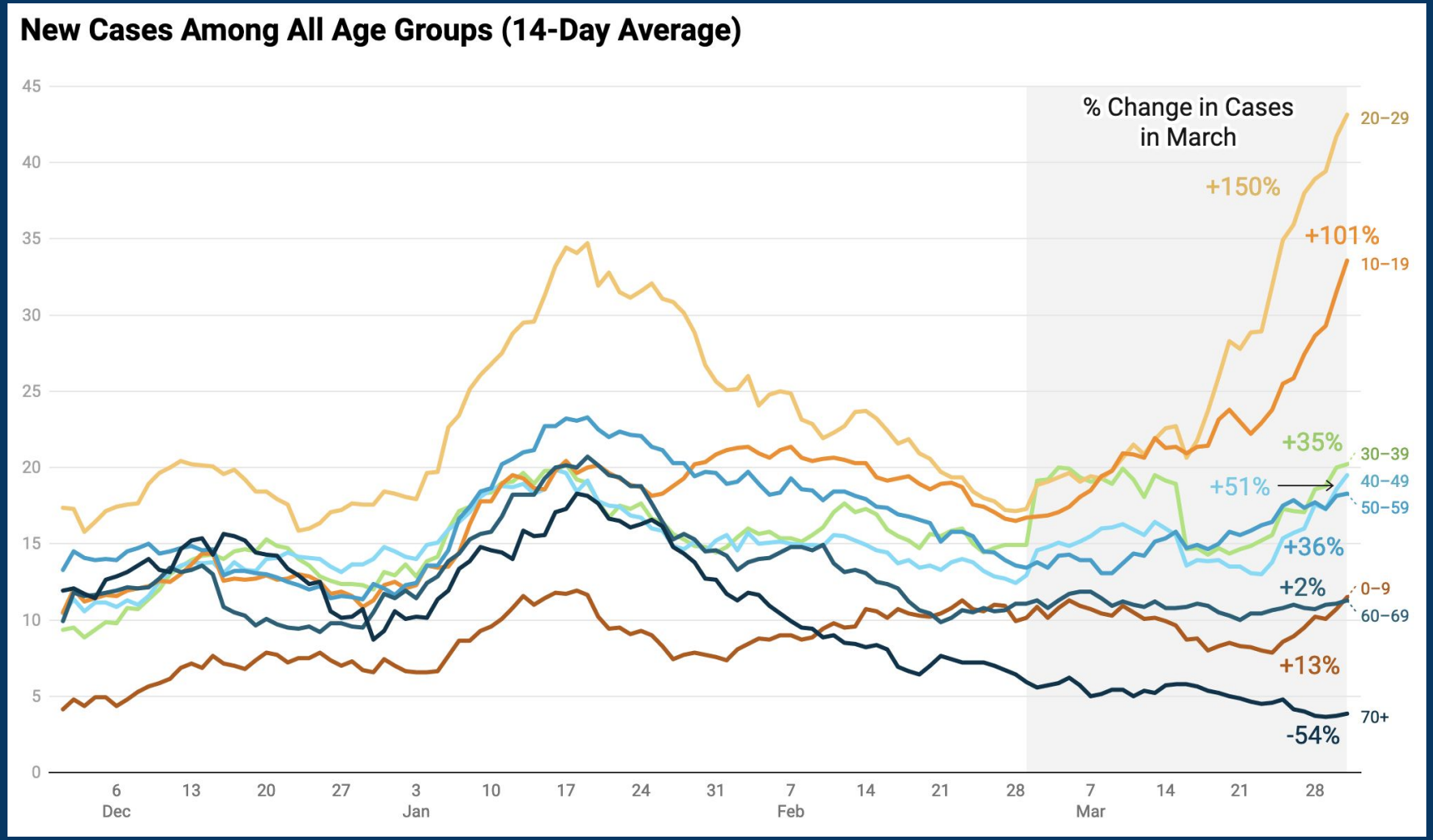
Souce: State Health Departments & CDC



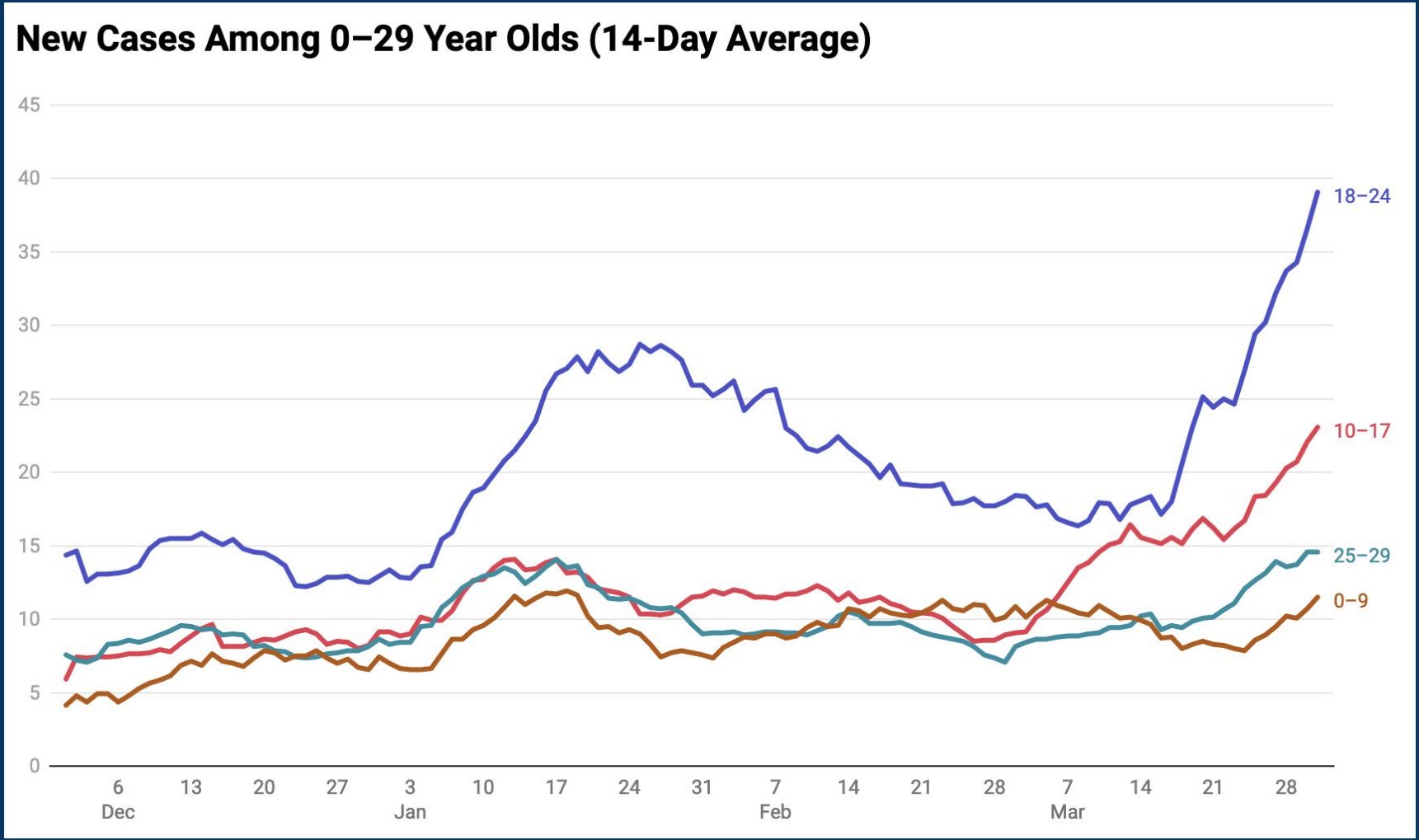
Souce: Vermont Department Health

Vermont Forecast





Souce: Vermont Department Health



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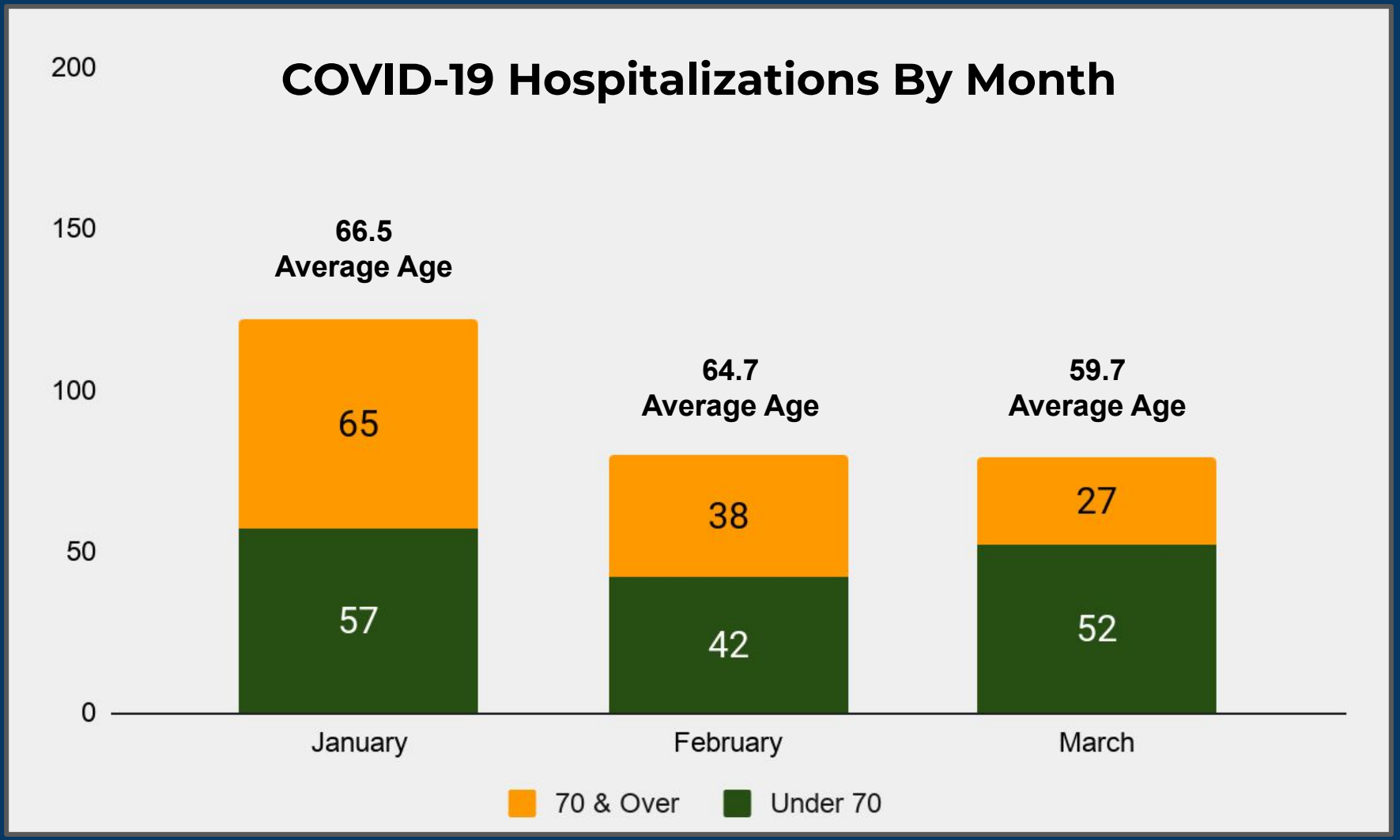
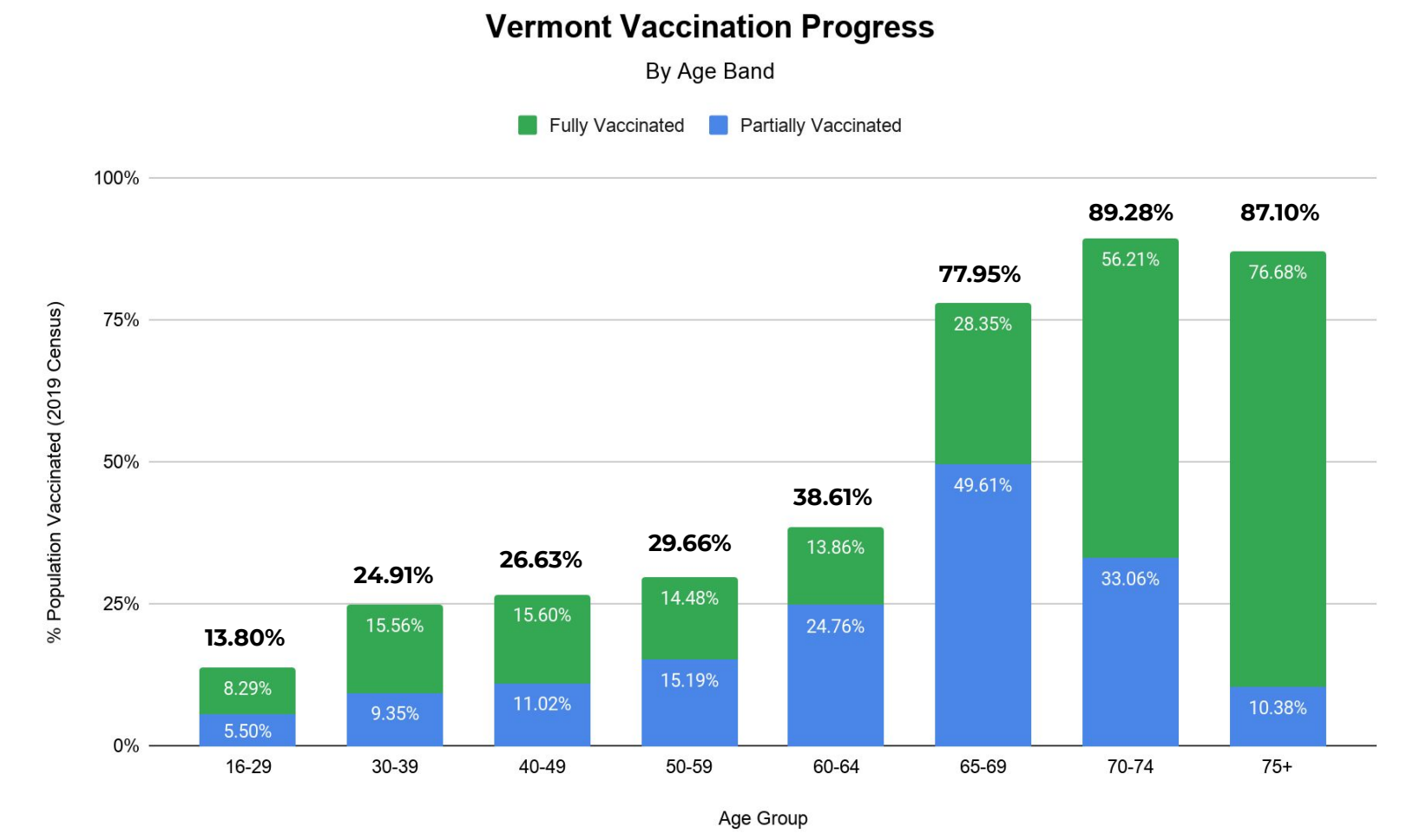

COVID-19 Hospitalizations By Month
200
150
100
50
0
66.5
Average Age
65
57
64.7
Average Age
38
42
59.7
Average Age
27
52
January
February
March
70 & Over
Under 70

Vermont COVID-19 Risks By Age Group

Per 100K Population Per Month Compared to Age Group 30 -39

Age Group Date Range	**0-9** 3/1/20 - 3/31/21	**10-19** 3/1/20 - 3/31/21	**20-29** 3/1/20 - 3/31/21	**30-39** 3/1/20 - 3/31/21	**40-49** 3/1/20 - 3/31/21	**50-59** 3/1/20 - 3/31/21	**60-69** 3/1/20 - 3/31/21	**70+** 3/1/20 - 1/31/21	**70+** 2/1/21 - 3/31/21
Confirmed Cases	0.6x	1.1x	1.3x	**Reference Group**	1.0x	0.9x	0.7x	1.7x	2.3x
Hospitalization	0.1x	0.4x	0.9x	**Reference Group**	1.9x	3.2x	4.6x	29.2x	58.6x
Death	0x	0x	0x	**Reference Group**	2.6x	2.9x	8.6x	275.5x	120.4x

Data Source: Vermont Department of Health (through 3/31/2021)


Vermont Vaccination Progress
By Age Band
Fully Vaccinated
Partially Vaccinated
100%
75%
50%
25%
0%
% Population Vaccinated (2019 Census)
13.80%
8.29%
5.50%
24.91%
15.56%
9.35%
26.63%
15.60%
11.02%
29.66%
14.48%
15.19%
38.61%
13.86%
24.76%
77.95%
28.35%
49.61%
89.28%
56.21%
33.06%
87.10%
76.68%
10.38%
16-29
30-39
40-49
50-59
60-64
65-69
70-74
75+
Age Group