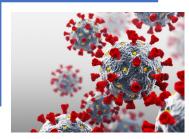


#### "Strategic Advice in an Era of Unprecedented Change"







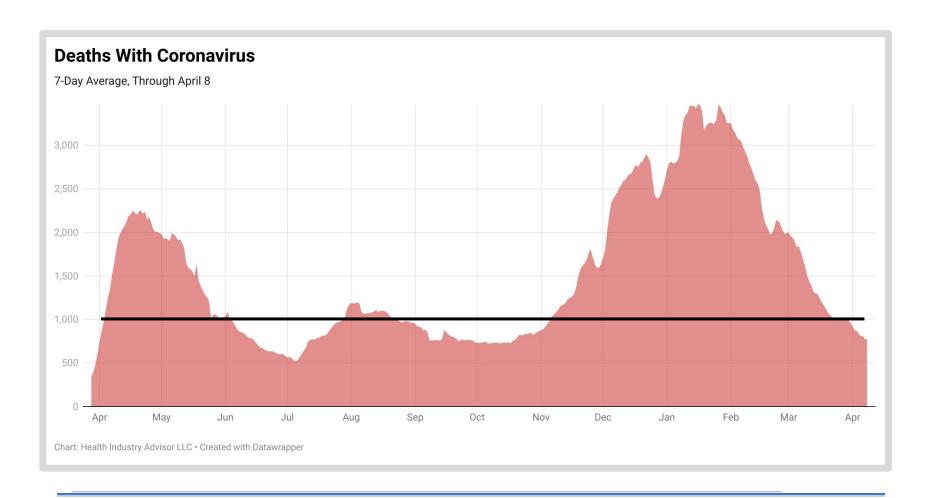


# Covid-19 "Vital Signs"

Issue # 315 April 9, 2021 Covid-19 "Vital Signs"

#### **Deaths With Coronavirus**

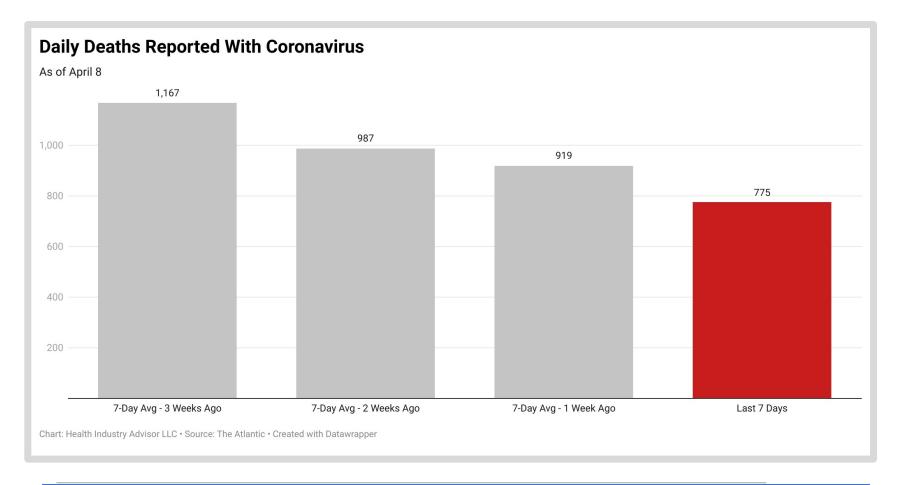
Deaths with coronavirus (7-day average) have declined by 78% since a peak in late January. This rate fell below 800 for the first time in more than twenty-four weeks.





#### **Deaths Reported With Coronavirus**

. Deaths declined more than 15% from last week and 33% in three weeks.

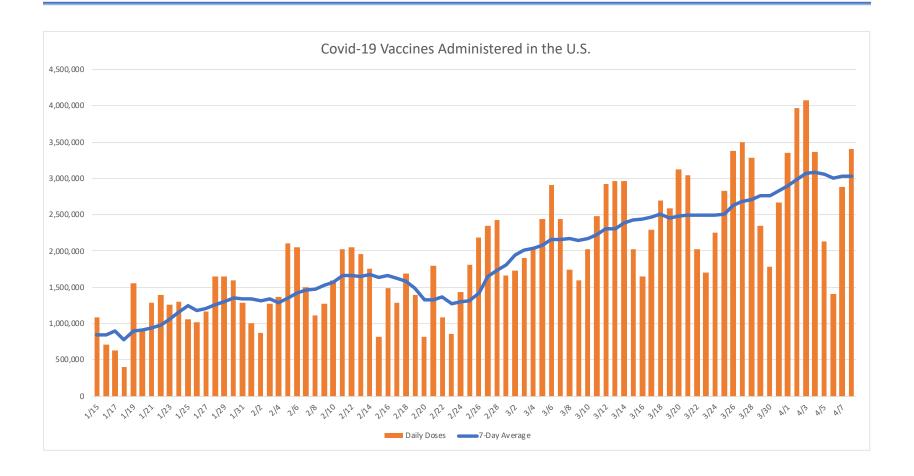




## Covid-19 "Vital Signs"

#### Pace of Vaccinations

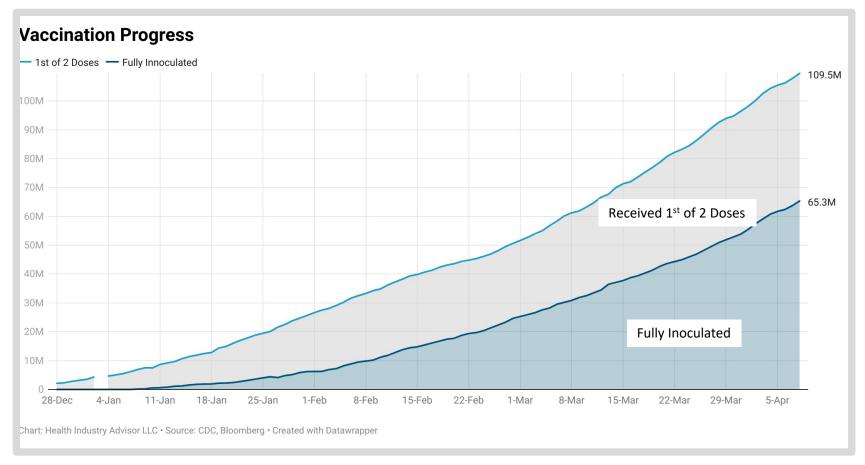
The vaccination pace picked back up on Tuesday and Wednesday and more than 21 million new doses were distributed to vaccination centers in the past three days.





#### Vaccine Tracking

To date, the US has distributed nearly 230 million doses and administered nearly 175 million. 65.3 million people are fully inoculated – 25.6% of the adult population. Another 44 million people have received the first of two required doses.



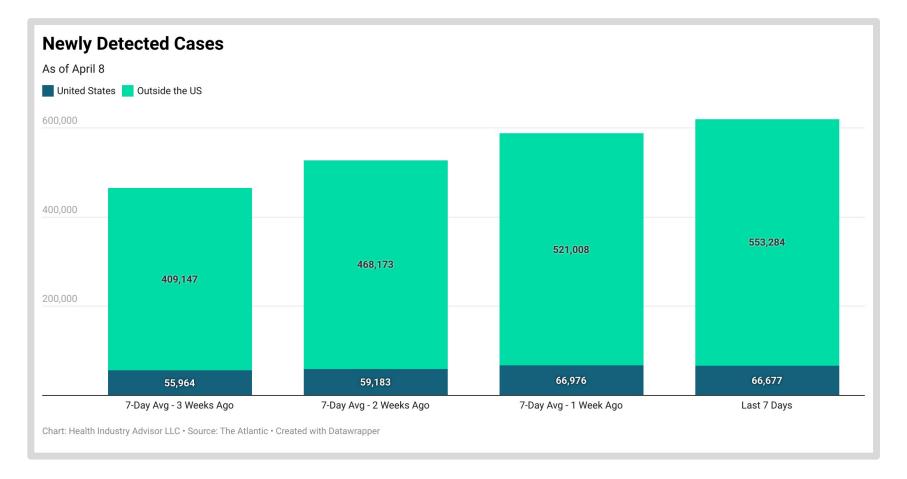
Vaccine data from: <u>Centers for Disease Control and Prevention</u> and <u>Bloomberg Vaccine Tracker</u>





#### Newly Detected Cases Per Day

In the US, 7-day new case rates declined slightly week-over-week, after growing nearly 5.8% the prior week and more than 13% a week earlier. Outside the U.S., cases also declined slightly week-over-week after increasing 11% the week prior and 14% two weeks earlier.

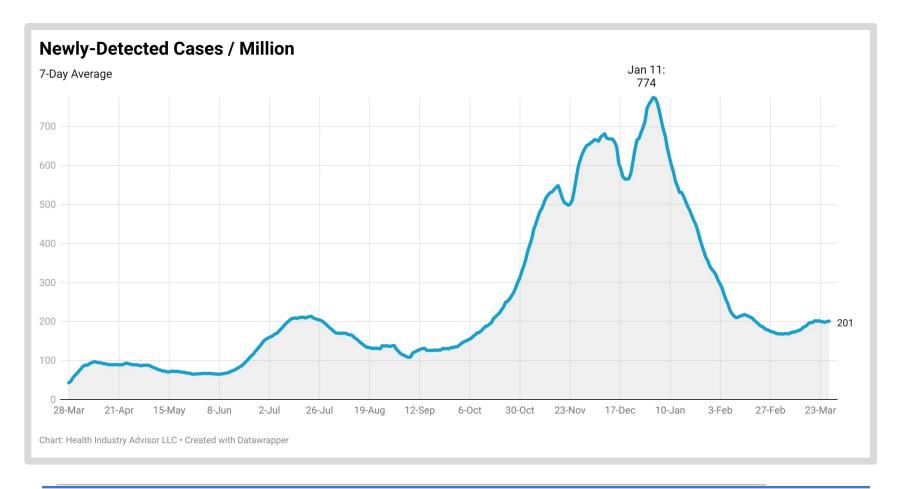






#### Newly Detected Cases / Million - US

The 7-day new case rate in the United States has been in a holding pattern for the past eight days.





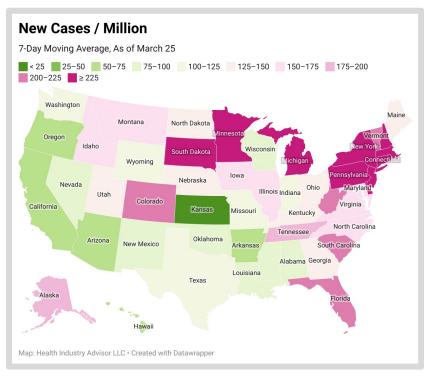


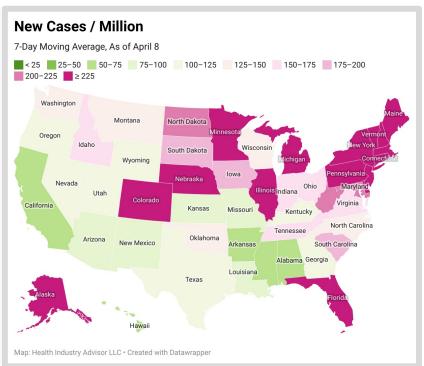
#### New Cases / Million

In the past two weeks, new daily case rates increased in the Upper Midwest, the Northeast, Alaska, and Florida.

#### March 25

#### April 8



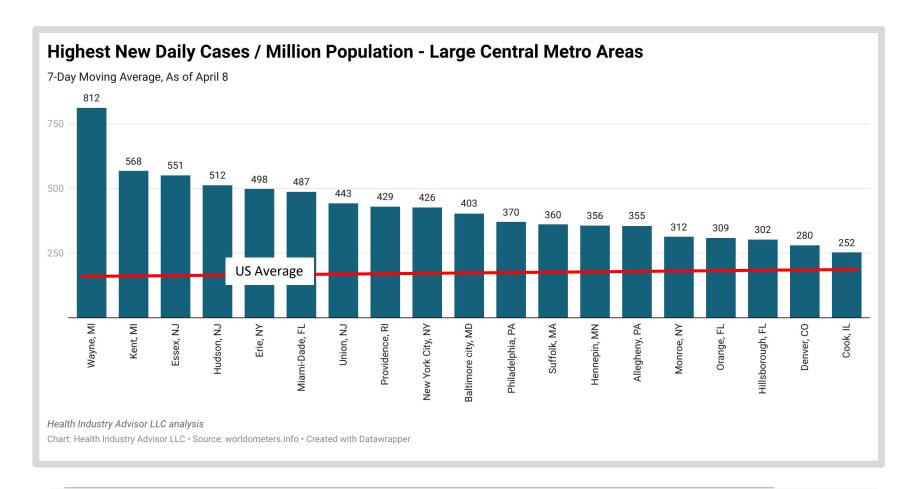






#### Large Central Metro Areas

Large Central Metro Areas in Michigan, New Jersey and New York reported the highest new case rates over the past week.

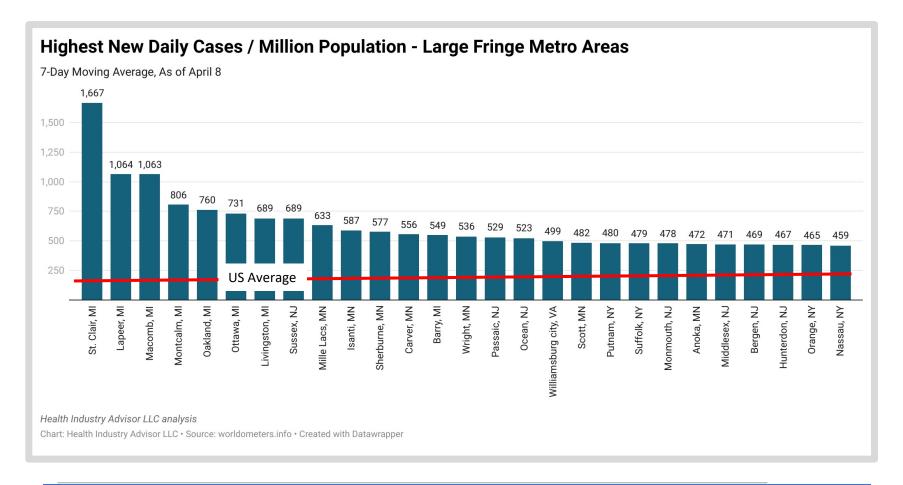






#### Large Fringe Metro Areas

Large Fringe Metro Areas in Michigan reported the highest new case rates over the past week.

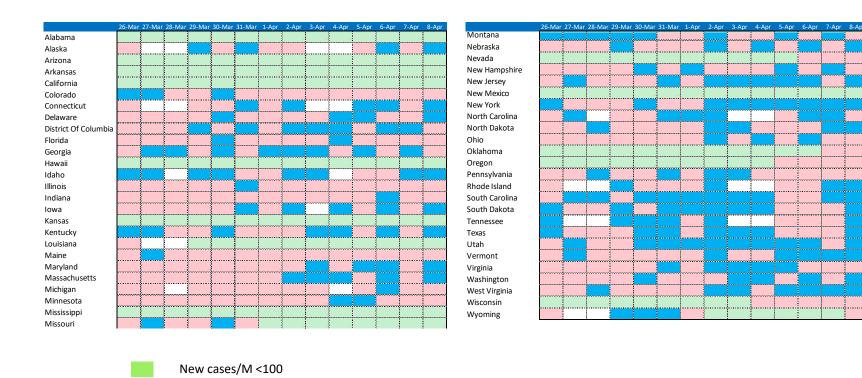




## Covid-19 "Vital Signs"

#### **Trends in New Case Rates**

Colorado, Florida, Illinois, Indiana, Maine, Michigan, Oregon, Pennsylvania, and Wisconsin are riding streaks of consecutive daily increases in new case rates. Alabama, Arizona, Arkansas, California, Hawaii, Kansas, Louisiana, Mississippi, Missouri, and New Mexico are riding streaks of new cases < 100/M/Day.

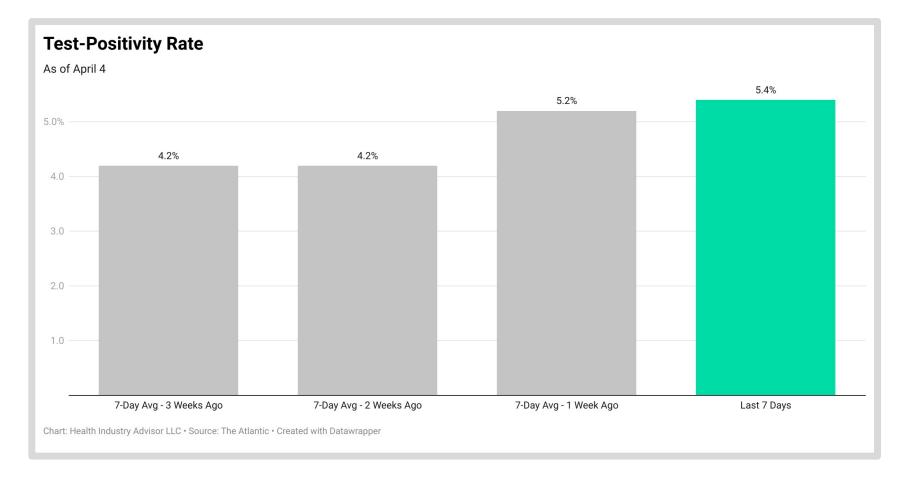


Case Rate declined day-over-day
Case Rate steady day-over-day
Case Rate Increased day-over-day



#### **Test-Positivity Rate**

The test-positivity rate increased sightly last week and is just higher than the suggested WHO target.





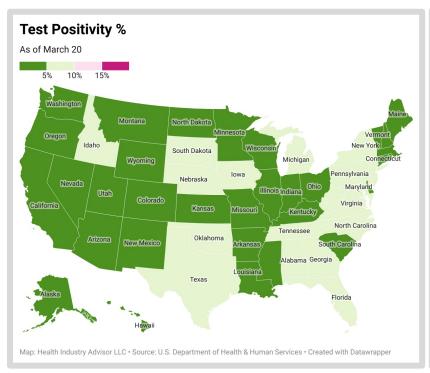


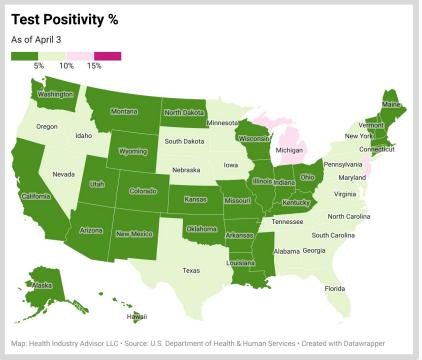
#### **Test-Positivity %**

Michigan is the only state where test-positivity exceeds 10%

#### March 20

#### **April 3**





Note: With the recent decline in case detection rates, we have lowered the scale used for these charts.





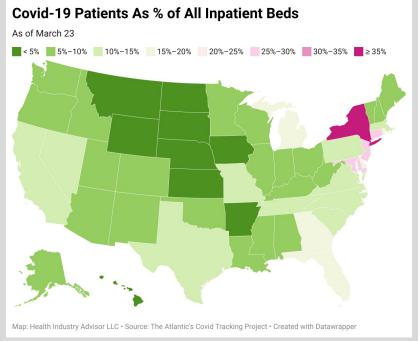
#### Covid-19 Hospitalizations

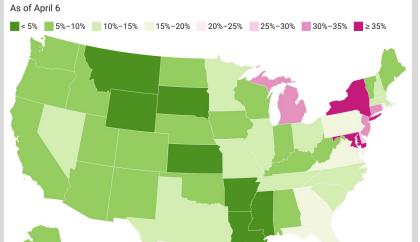
Covid-19 hospital census is of concern in Connecticut, Delaware, Maryland, Michigan, New Jersey, and New York.

#### March 23

## **Covid-19 Patients As % of All Inpatient Beds** As of April 6







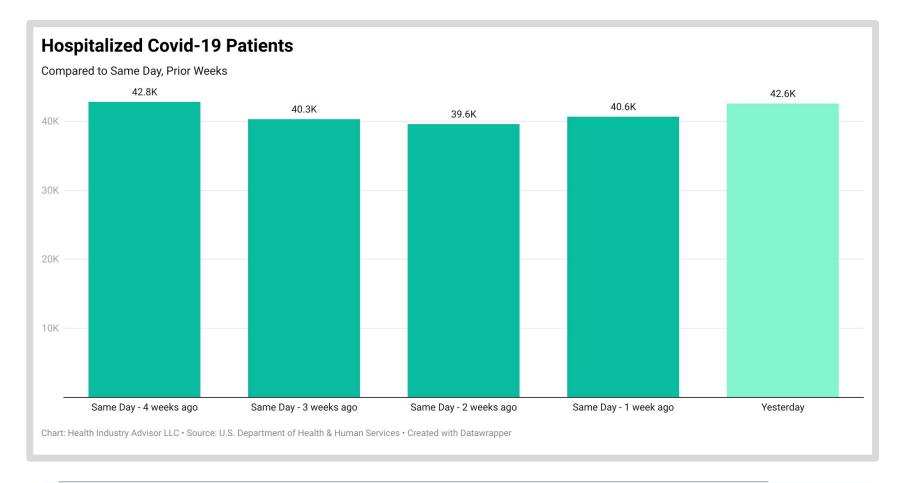
Map: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

**April 6** 



#### **Covid-19 Inpatient Census**

While increasing slightly week-over-week recently, Covid-19 inpatient census was relatively stable over the past four weeks.

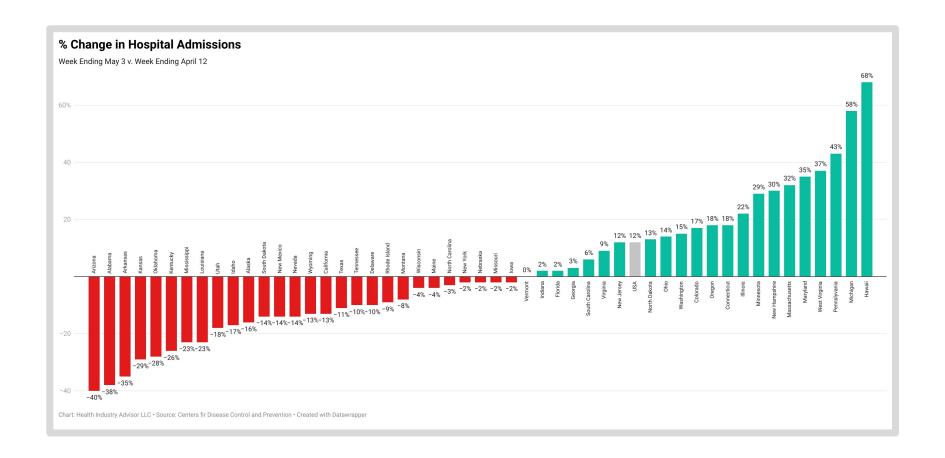




Covid-19 "Vital Signs"

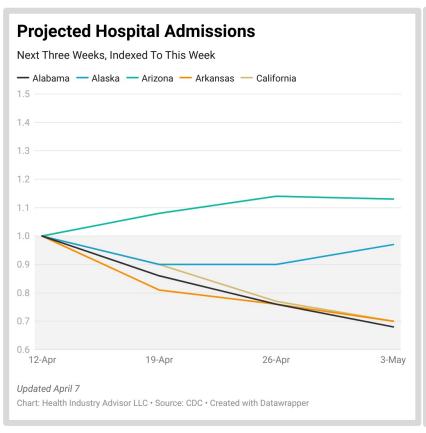
## Projected Covid-19 Admission Trends

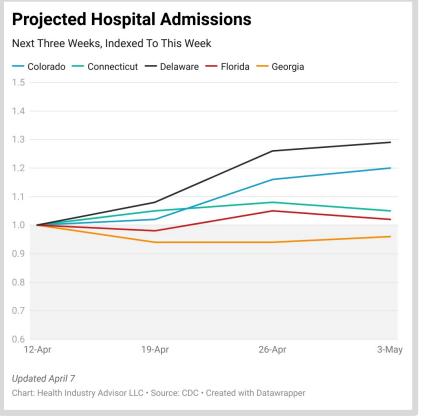
Projected Covid-19 admissions rise sharply in Maryland, Michigan, and Pennsylvania over the next three weeks. For the U.S. overall, projected Covid-19 admissions increase 12% in this time.





#### Projections of Hospital Admissions (US) – 1 of 5

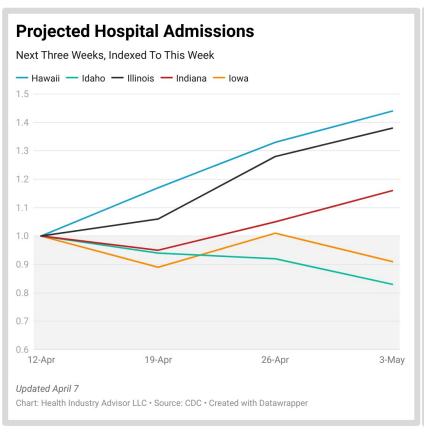


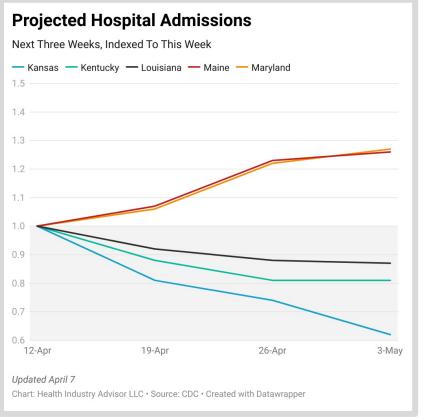






#### Projections of Hospital Admissions (US) -2 of 5

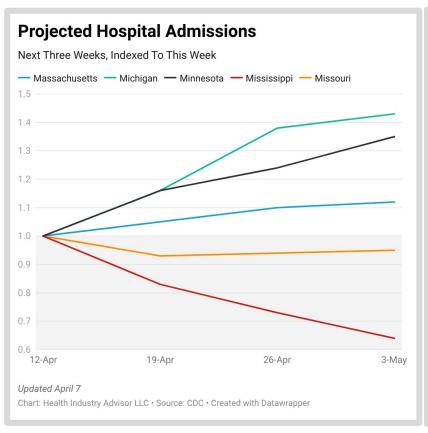


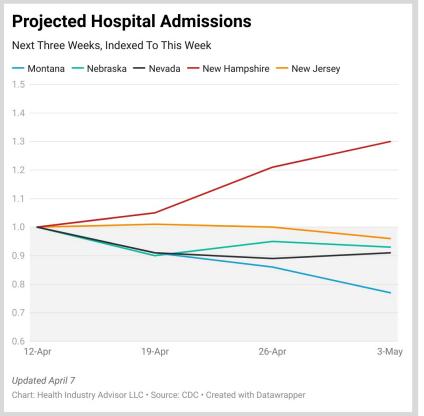






### Projections of Hospital Admissions (US) -3 of 5

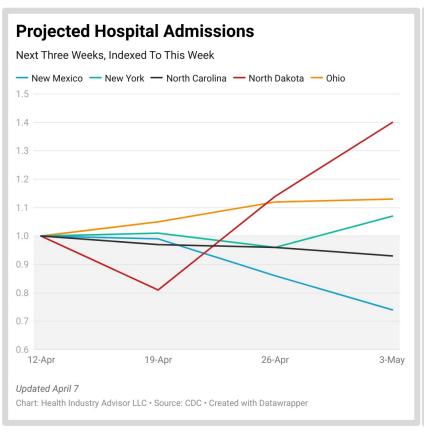


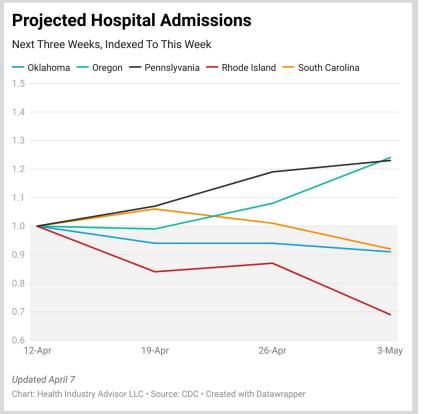






#### Projections of Hospital Admissions (US) - 4 of 5

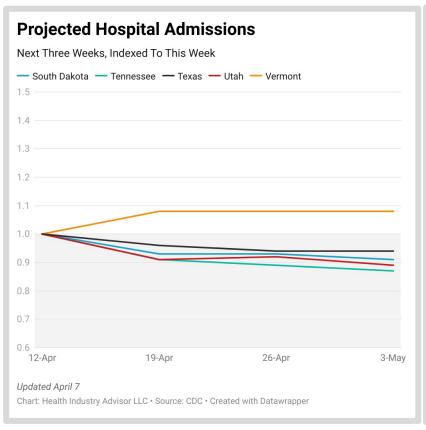


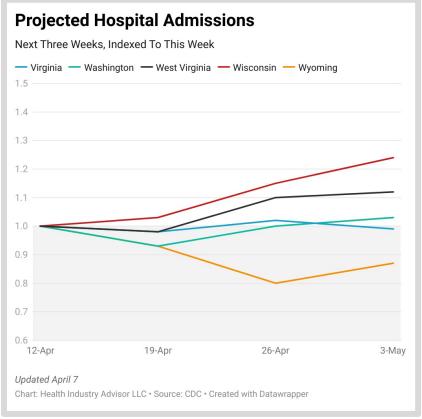






#### Projections of Hospital Admissions (US) – 5 of 5









#### State-By-State Scorecard: Scoring Grid

Designed to reflect five critical measures of a state's current experience with Covid-19

Worse Better

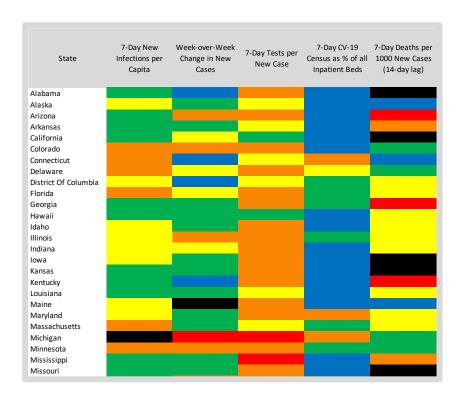
Metric		Black	Red	Orange	Yellow	Green	Blue
7-Day Average New Daily Reported Infections per Capita	Greater than	450	350	250	150	50	0
Week-over-Week Change in Newly Reported Cases	Greater than	30%	20%	10%	0%	-10%	N/A
7-Day Average Viral Tests per 7-Day Average Newly Reported Cases	Less than	5	10	25	50	75	N/A
Covid-19 Inpatient Census as % of All Inpatient Beds	Greater than	50%	40%	30%	20%	10%	0%
7-Day Deaths per 1000 New Cases (14-day lag)	Greater than	25	20	15	10	5	0

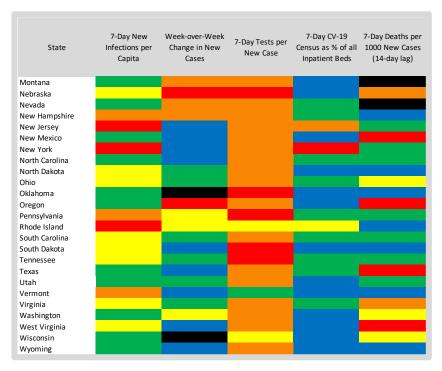


Covid-19 "Vital Signs"

#### State-By-State Scorecard:

New case rates are "cautious" to "good" across many parts of the country, with Connecticut, Delaware, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont being the outliers.









### State-By-State Data Table (1 of 3)

State 🛦	Infection Prevalence	Deaths per 1 Million Population	Tests per 1M Population Past 7 days	Test-Positive % (7- Day Moving Average)	New Daily Cases Per 1M Population (7-Day M.A.)	Tests / New Case	Covid-19 Census % of All Beds	7-Day Deaths /1000 New Cases , 14-Day Lag
Alabama	10.6%	2,177	1,216	5.6%	60	20	7%	39
Alaska	8.5%	422	8,560	3.0%	233	37	6%	-
Arizona	11.6%	2,343	2,186	3.8%	92	24	9%	23
Arkansas	11.0%	1,876	1,367	2.0%	52	26	4%	18
California	9.3%	1,522	3,473	1.7%	67	52	9%	40
Colorado	8.2%	1,093	3,946	5.2%	257	15	9%	5
Connecticut	9.0%	2,227	7,699	4.1%	293	26	34%	5
Delaware	10.0%	1,610	5,892	5.3%	325	18	26%	6
District Of Columbia	6.4%	1,526	7,862	3.0%	170	46	17%	14
Florida	9.8%	1,579	3,461	8.2%	267	13	17%	12
Georgia	10.1%	1,825	1,352	5.1%	117	12	16%	24
Hawaii	2.2%	332	4,148	1.9%	70	59	6%	12
Idaho	10.2%	1,110	1,923	5.8%	155	12	10%	12
Illinois	10.0%	1,873	4,376	4.3%	238	18	12%	10
Indiana	10.3%	1,948	2,934	4.7%	151	19	9%	12
Iowa	12.2%	1,852	2,177	6.7%	177	12	5%	25
Kansas	10.5%	1,702	1,814	3.1%	89	20	4%	697





## State-By-State Data Table (2 of 3)

State ▲	Infection Prevalence	Deaths per 1 Million Population	Tests per 1M Population Past 7 days	Test-Positive % (7-Day Moving Average)	New Daily Cases Per 1M Population (7-Day M.A.)	Tests / New Case	Covid-19 Census % of All Beds	Week-Over-Week Change in New Cases	7-Day Deaths /1000 New Cases , 14-Day Lag
Kentucky	9.7%	1,391	2,289	3.6%	117		20	6%	25
ouisiana	9.6%	2,194	2,038	2.6%	81		25	4%	13
Maine	3.9%	556	2,753	4.0%	235		12	9%	3
Maryland	7.0%	1,391	4,721	6.8%	210		22	36%	15
Massachusetts	9.4%	2,499	12,508	2.6%	301		42	14%	11
Michigan	8.1%	1,747	3,869		15.1%	724	5	35%	10
Minnesota	9.5%	1,239	5,728	7.0%	342		17	12%	7
Mississippi	10.3%	2,380	512	3.4%	69		7	4%	17
Missouri	9.5%	1,498	1,641	4.7%	98		17	10%	25
Montana	9.9%	1,398	1,972	4.6%	137		14	2%	46
Nebraska	11.0%	1,141	2,005	8.4%	243		8	5%	15
Nevada	9.9%	1,725	1,863	6.5%	102		18	14%	32
New Hampshire	6.4%	920	5,275	3.9%	305		17	11%	3
New Jersey	10.6%	2,79	5,183	9.9	9%	449	12	30%	7
New Mexico	9.2%	1,895	1,995	2.4%	89		22	5%	24
New York	10.2%	2,631	6,984	5.7%	386	5	18	40%	9





#### State-By-State Data Table (3 of 3)

#### **State-By-State Comparisons** Tests per 1M **Test-Positive % New Daily Cases Per** Covid-19 Week-Over-Week 7-Day Deaths Infection Deaths per 1 Population Past 7 (7-Day Moving 1M Population (7-Day Tests / New Census % of All /1000 New Cases Change in New Prevalence M.A.) Cases , 14-Day Lag State Million Population days Average) Case Beds 2,796 North Dakota 1.926 3.4% Ohio 2,540 13 Oklahoma Oregon 2,699 25 Pennsylvania 1,987 3,367 Rhode Island 2,695 South Carolina South Dakota 1,558 1,021 Tennessee Texas 1,730 2,667 Utah Vermont 2,061 12 17 Virginia 11 Washington 2,217 3,550 21 West Virginia 1,145 3,440 3.6% 13 Wisconsin 2,284 3.5% Wyoming Table: Health Industry Advisor LLC . Created with Datawrapper





#### Sources

The following data sources are accessed on a daily or weekly basis

- U.S. Department of Health & Human Services: <a href="https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state">https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state</a>
- U.S. Department of Health & Human Services https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb
- Worldometers.info: https://www.worldometers.info/coronavirus/
- Centers for Disease Control and Prevention, National, Regional, and State Level Outpatient Illness and Viral Surveillance <a href="https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html">https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html</a>
- Centers for Disease Control and Prevention, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19 5.html
- Centers for Disease Control and Prevention, COVID Data Tracker <a href="https://www.cdc.gov/covid-data-tracker/index.html#mobility">https://www.cdc.gov/covid-data-tracker/index.html#mobility</a>
- Centers for Disease Control and Prevention, Vaccines, <a href="https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html">https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html</a>
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads <a href="http://www.healthdata.org/covid/data-downloads">http://www.healthdata.org/covid/data-downloads</a>
- New York Times, Covid-19 data <a href="https://github.com/nytimes/covid-19-data">https://github.com/nytimes/covid-19-data</a>
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University <a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>
- COVID-19 Projections Using Machine Learning, <a href="https://covid19-projections.com">https://covid19-projections.com</a>
- Our World In Data, <a href="https://ourworldindata.org/covid-vaccinations">https://ourworldindata.org/covid-vaccinations</a>
- Covid-19 Forecast Hub, <a href="https://viz.covid19forecasthub.org">https://viz.covid19forecasthub.org</a>
- Yale School of Public Health & Harvard TH Chan School of Public Health, <a href="https://covidestim.org">https://covidestim.org</a>
- Bloomberg Vaccine Trackers, https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH

