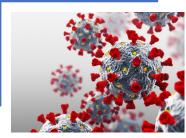


# "Strategic Advice in an Era of Unprecedented Change"









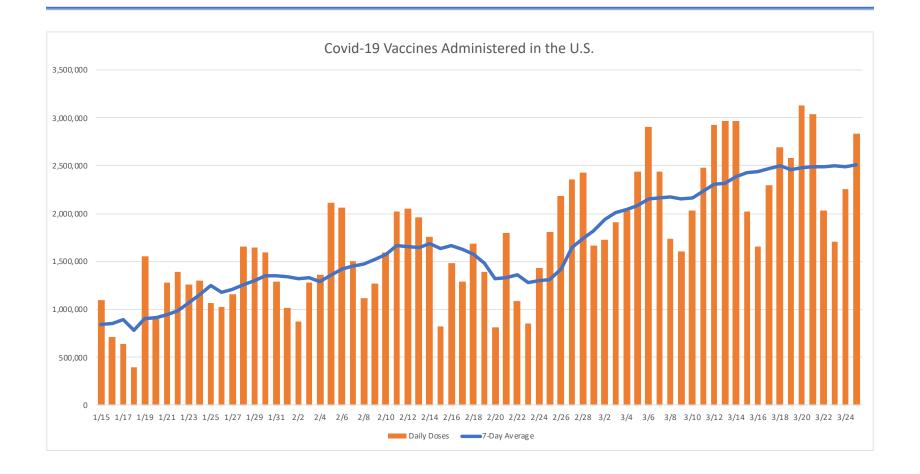
Covid-19 "Vital Signs"

Issue # 307 March 26, 2021

# Covid-19 "Vital Signs"

# Pace of Vaccinations

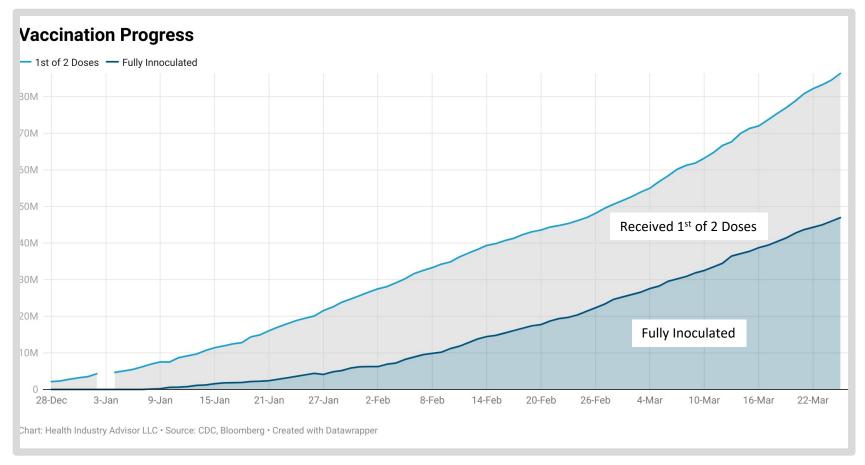
The vaccination pace stabilized over the past week, averaging 2.5 million daily doses.





# **Vaccine Tracking**

To date, the US has administered 133 million doses, with 47 million people fully inoculated – 18.4% of the adult population.



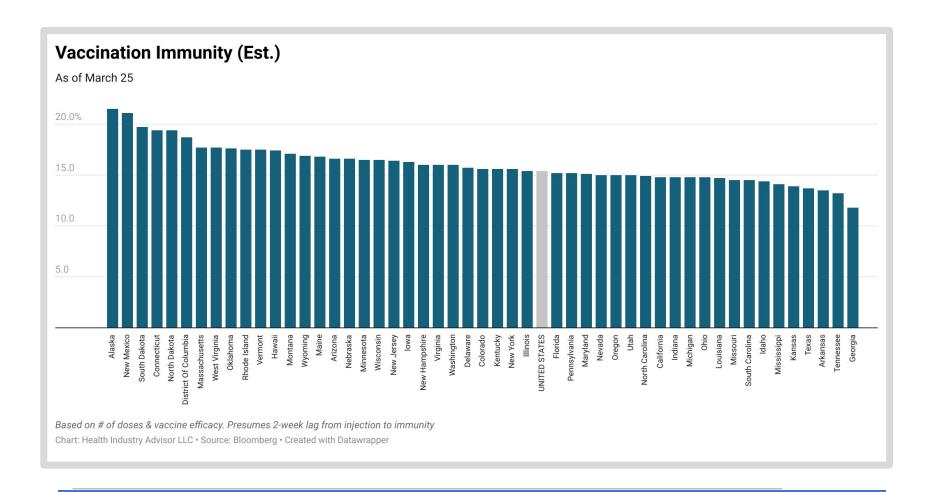
Vaccine data from: <u>Centers for Disease Control and Prevention</u> and <u>Bloomberg Vaccine Tracker</u>





# % of Residents Immune Via Vaccine By State

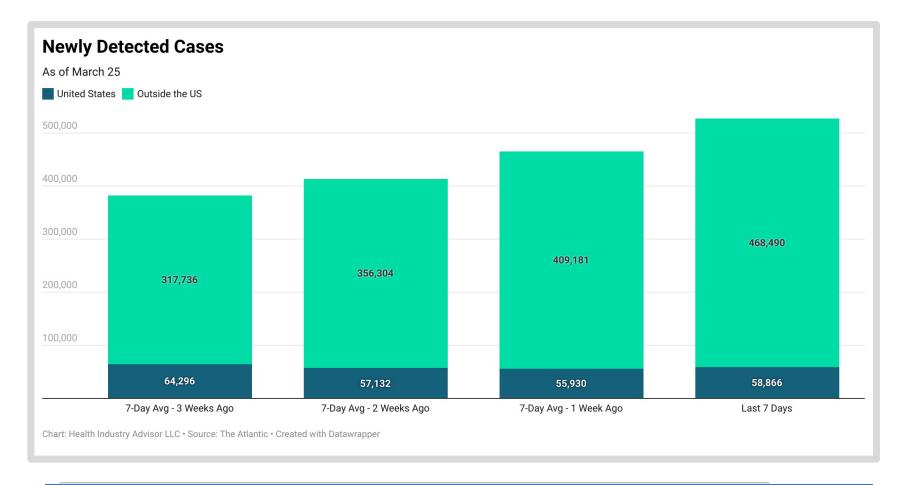
15% of U.S. residents have full immunity via vaccination. This rate varies from a high of 21.5% in Alaska to a low of 11.8% in Georgia.





# Newly Detected Cases Per Day

In the US, 7-day new case rates increased 5% week-over-week; 3% compared to two weeks ago. Outside the U.S., cases increased 14% week-over-week and 31% over the last two weeks.

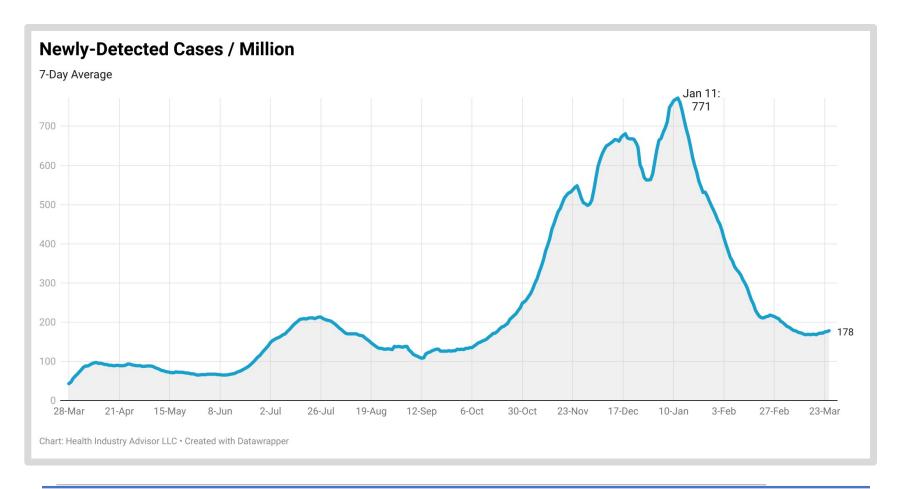






# Newly Detected Cases / Million - US

Despite increasing week-over-week, newly detected cases (7-day average) remain lower than detected from November through February.

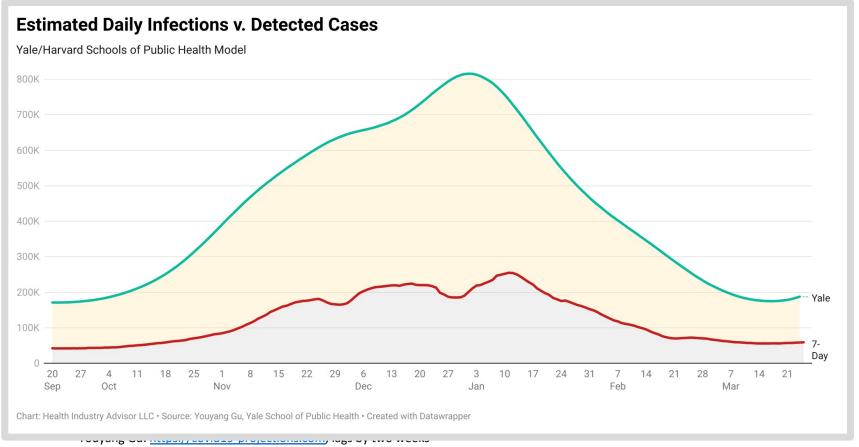




# **Estimated Daily Infections & New Case Rates**

Covid-19 "Vital Signs"

Estimated new infections (7-day average) increased on each of the past seven days yet remain lower than anytime from mid-October through the first nine days of March.



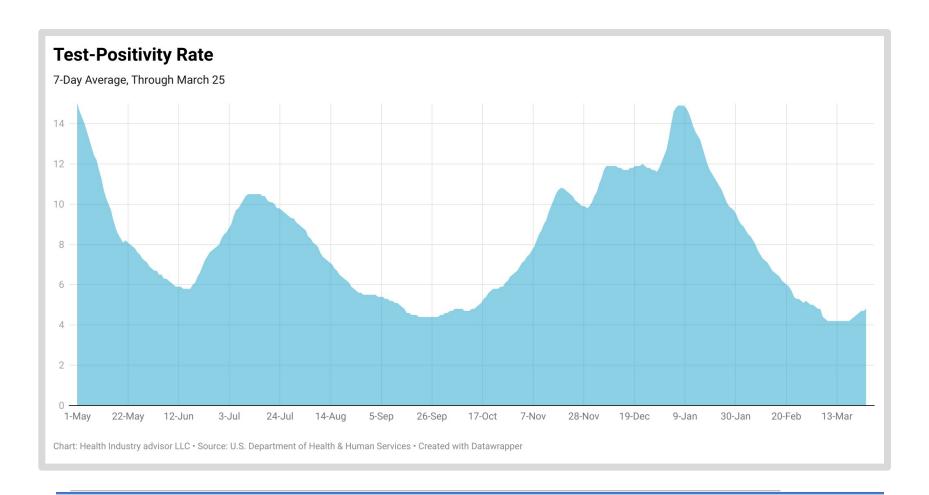
Yale School of Public Health: https://covidestim.org





# **Test-Positivity Rate**

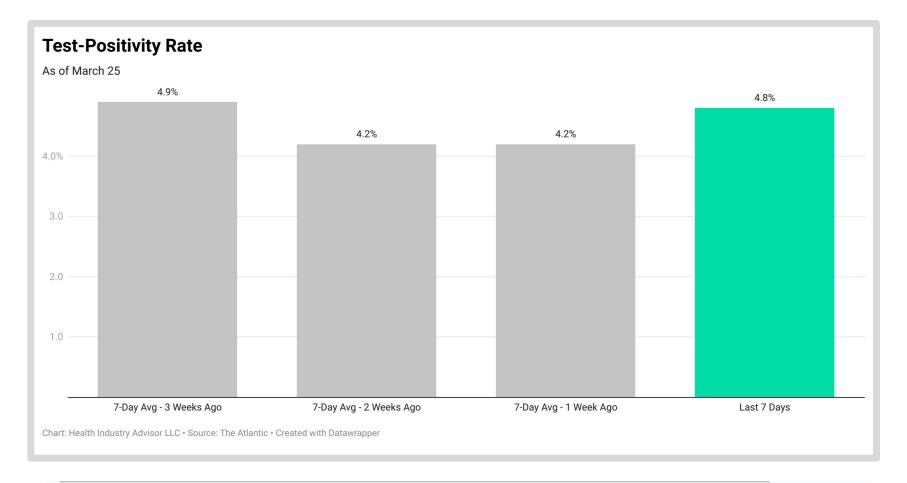
The7-day test-positivity rate began moving up slightly in the last several days. However, this rate remains strong by historical levels and below the target set by the World Health Organization.





# **Test-Positivity Rate**

The test-positivity rate increased slightly last week yet remains below the suggested WHO target.

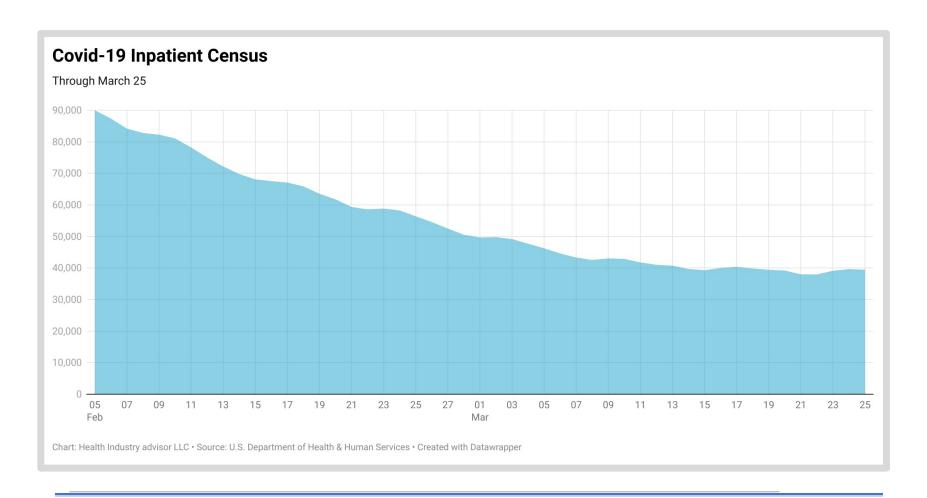






# Covid-19 Inpatient Census

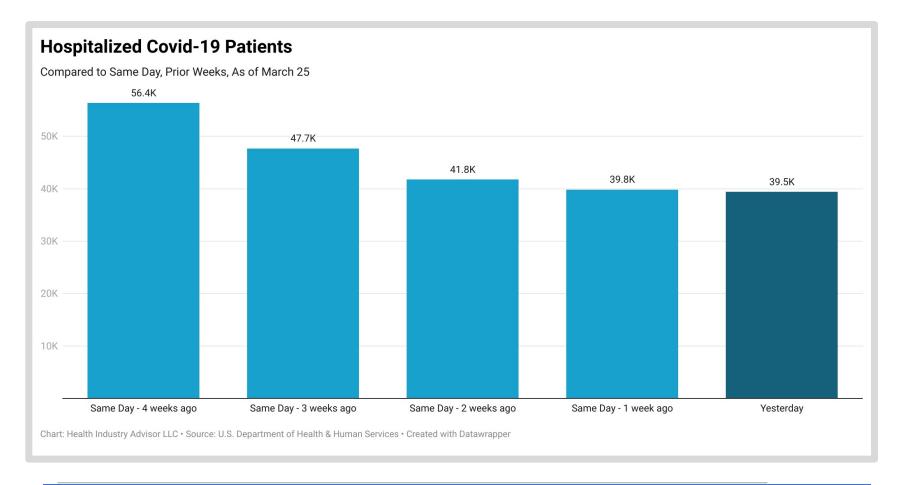
Covid-19 inpatient census has declined steadily since early February, when the Department of Health & Human Services began tabulating these data (a 56% decline in six-and-one-half weeks).





# **Covid-19 Inpatient Census**

Covid-19 inpatient census was stable week-over-week, after falling 5% to 15% during the previous three weeks.

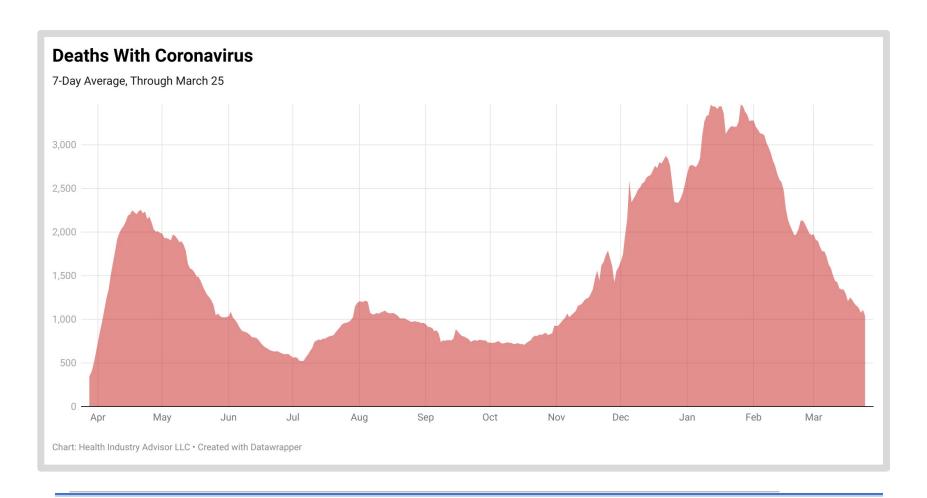




# Covid-19 "Vital Signs"

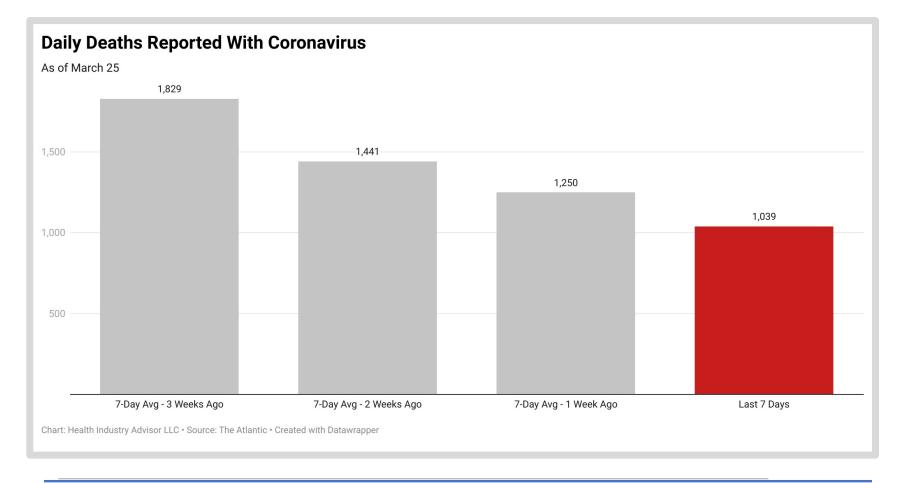
# **Deaths With Coronavirus**

Deaths with coronavirus (7-day average) have declined by 70% since a peak in late January. This rate is lower than at any time in the last twenty weeks.





Deaths Reported With Coronavirus
The 7-day average death rate fell 17% from last week and 56% in three weeks. This 7-day rate has not been lower than 1,000 since the beginning of November.







# State-By-State Scorecard: Scoring Grid

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

Worse Better

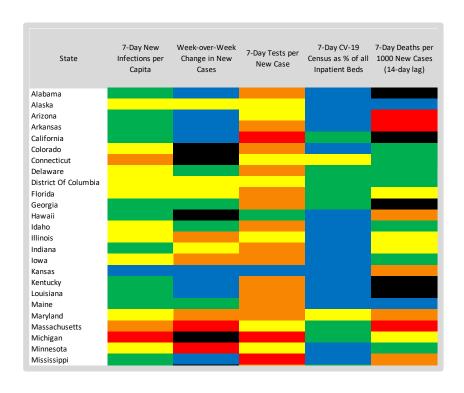
Metric		Black	Red	Orange	Yellow	Green	Blue
7-Day Average New Daily Reported Infections per Capita	Greater than	450	350	250	150	50	0
Week-over-Week Change in Newly Reported Cases	Greater than	30%	20%	10%	0%	-10%	N/A
7-Day Average Viral Tests per 7-Day Average Newly Reported Cases	Less than	5	10	25	50	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

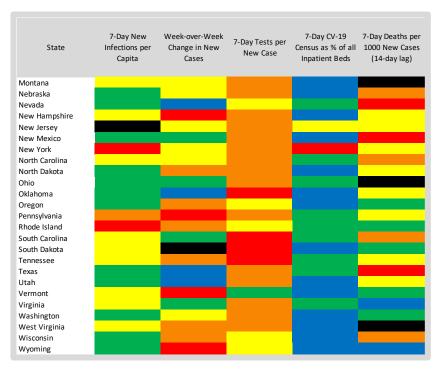




# State-By-State Scorecard:

New case rates are "cautious" to "good" across many parts of the country; and the hospital crisis eased for most of the country.







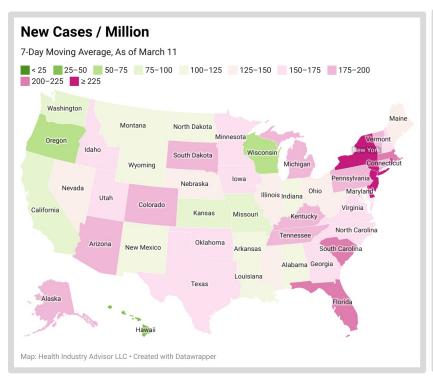


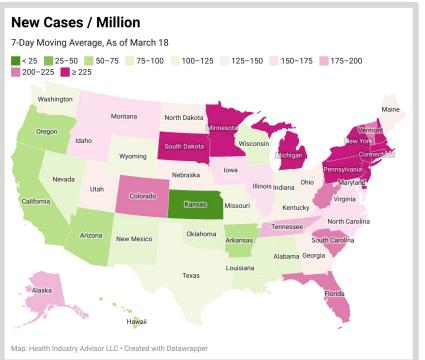
# New Cases / Million

In the past two weeks, new daily case rates increased in Colorado, Connecticut, Michigan, Minnesota, Montana, New Hampshire, Pennsylvania, South Dakota, West Virginia. Rates declined in Arizona, California, Kentucky, Nevada, Oklahoma, and Texas

### March 11

### March 25





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



Covid-19 "Vital Signs"

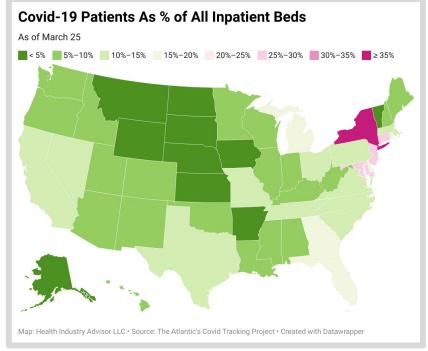
# Covid-19 Hospitalizations

Covid-19 hospital census is about the same or lower in most states as it was two weeks ago. Georgia and Michigan have seen increased census, yet this census remains low compared with historical levels.

### March 11

# Covid-19 Patients As % of All Inpatient Beds As of March 25 Second Symbol Symbol

### March 25

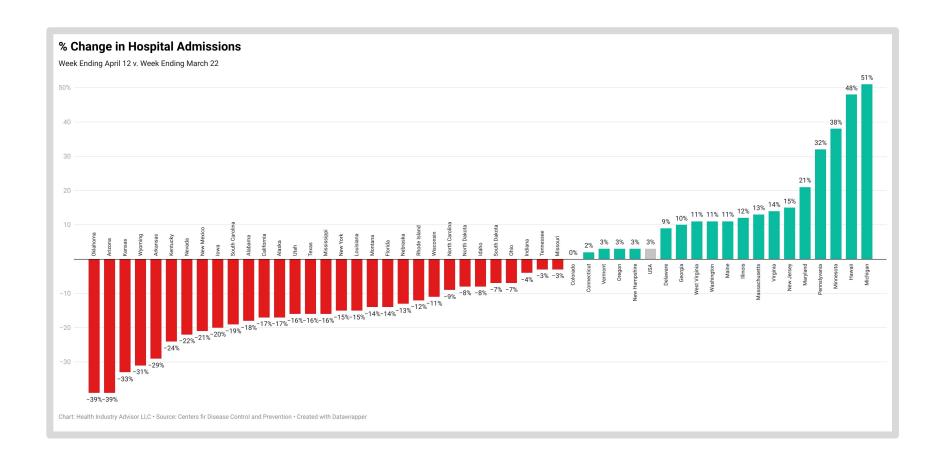






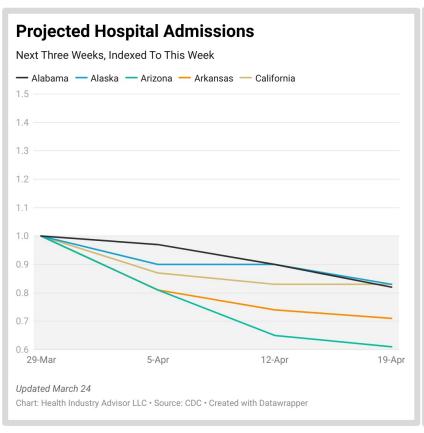
# Projected Covid-19 Admission Trends

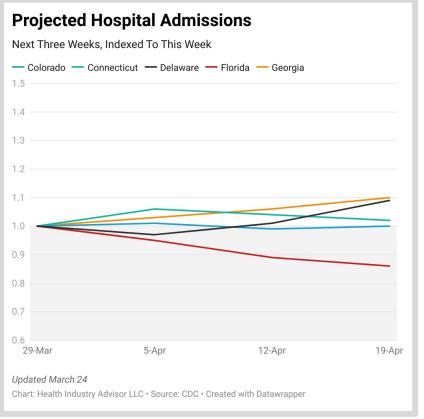
Projected Covid-19 hospital admissions increase materially in Hawaii, Maryland, Michigan, and Minnesota over the next three weeks. For the U.S. overall, projected Covid-19 admissions increased 3% in this time.





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

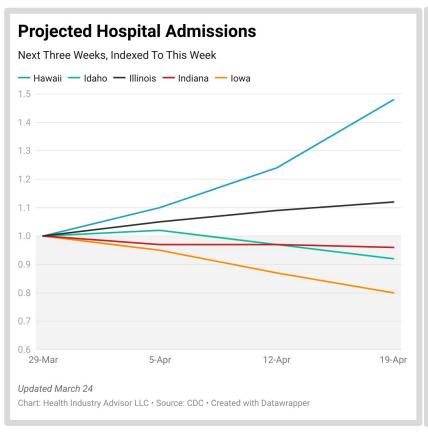


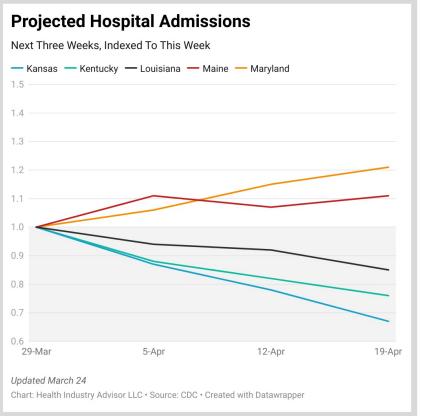






# Projections of Hospital Admissions (US) -2 of 5

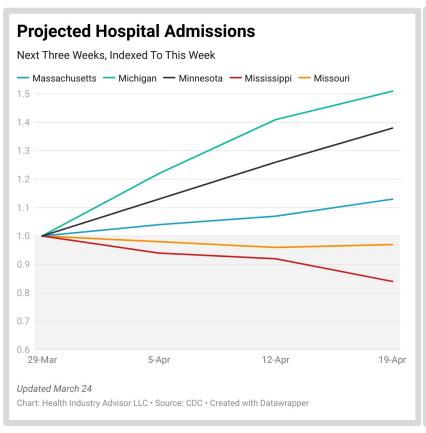


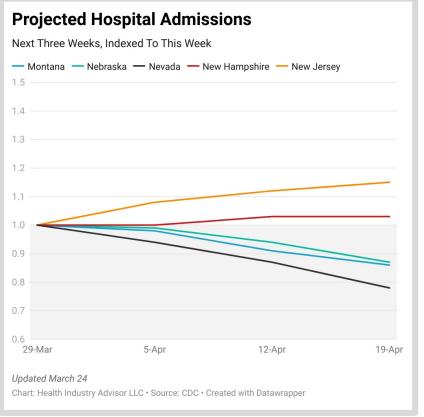






# Projections of Hospital Admissions (US) -3 of 5

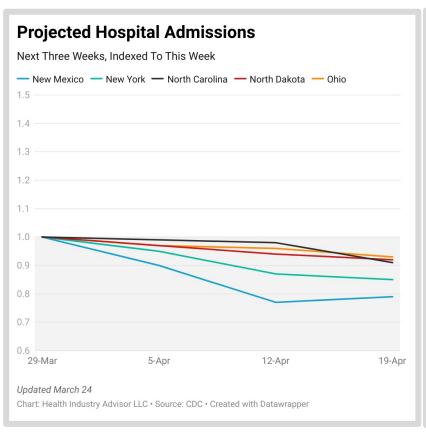


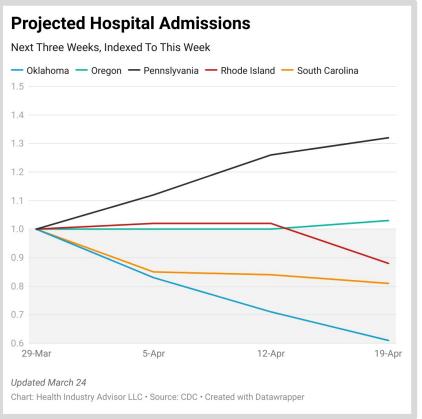






# Projections of Hospital Admissions (US) - 4 of 5

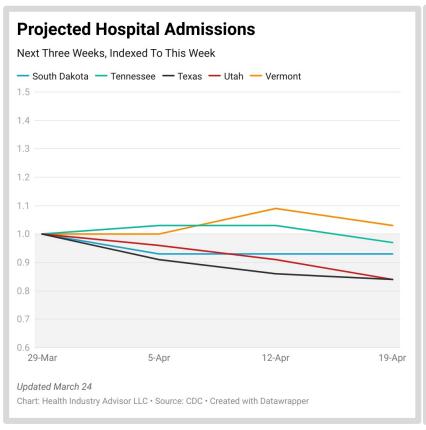


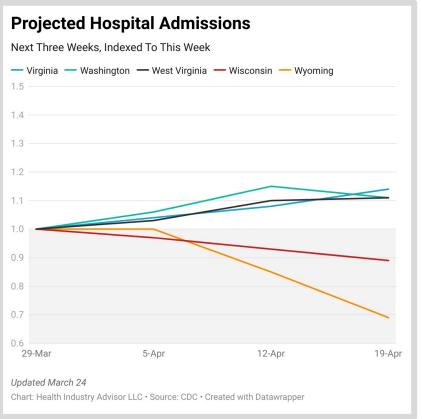






# Projections of Hospital Admissions (US) – 5 of 5









# State-By-State 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	10.5%	2,142	1,422	5.3%	90	16	8%	27
Alaska	8.1%	422	8,237	2.4%	185	44	5%	3
Arizona	11.5%	2,318	2,221	3.7%	66	33	10%	24
Arkansas	10.9%	1,846	1,679	2.1%	69	24	4%	25
California	9.2%	1,469	588	1.9%	65	9	11%	45
Colorado	7.9%	1,075	3,599	4.3%	206	17	8%	7
Connecticut	8.5%	2,205	8,769	3.6%	322	27	29%	8
Delaware	9.6%	1,577	5,477	4.0%	237	23	17%	9
District Of Columbia	6.2%	1,492	7,496	2.7%	157	48	18%	6
Florida	9.4%	1,535	3,428	7.1%	222	15	16%	11
Georgia	9.9%	1,766	1,642	5.4%	142	12	16%	26
Hawaii	2.1%	323	3,771	1.5%	57	67	5%	18
Idaho	10.0%	1,090	2,250	5.6%	166	14	8%	8
Illinois	9.7%	1,850	4,336	2.7%	156	28	9%	14
Indiana	10.1%	1,928	2,930	3.5%	119	25	7%	13
Iowa	11.9%	1,809	2,023	5.6%	165	12	5%	10
Kansas	10.4%	1,675	1,702	3.2%	3	526	4%	15





# 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 Case: , 14-Day Lag
Kentucky	9.5%	1,336	2,547	3.9%	136		19	7%	8
Louisiana	9.5%	2,167	2,062	2.8%	95		22	5%	29
Maine	3.7%	544	2,671	3.3%	144		19	9%	3
Maryland	6.7%	1,359	4,198	5.2%	171		25	29%	18
Massachusetts	9.0%	2,448	11,811	2.2%		286	41	12%	23
Michigan	7.1%	1,703	3,576	7.4	%	415	9	17%	13
Minnesota	9.1%	1,220	6,646	4.7%	226		29	8%	8
Mississippi	10.2%	2,348	582	4.2%	97		6	6%	16
Missouri	9.3%	1,464	1,823	4.1%	106		17	10%	19
Montana	9.7%	1,343	2,584	4.7%	162		16	3%	32
Nebraska	10.7%	1,116	1,728	7.2	125		14	4%	15
Nevada	9.8%	1,693	2,134	4.8%	81		26	12%	22
New Hampshire	6.0%	904	4,742	3.3%	24	5	19	9%	14
New Jersey	9.9%	2,73	4,976		8.7%	459	11	28%	11
New Mexico	9.1%	1,868	2,206	2.1%	91		24	7%	25





# State-By-State Data Table (3 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
North Dakota	13.4%	1,922	2,394	2.8%	149		16	4%	11
Ohio	8.6%	1,573	2,667	3.2%	127		21	10%	37
Oklahoma	11.0%	1,226	541	5.0%	88		6	6%	14
Oregon	3.9%	562	3,315	4.3%	74		45	6%	9
Pennsylvania	7.9%	1,956	2,846	6.5%	20	5 <mark>1</mark>	11	15%	11
Rhode Island	12.8%	2,461	12,011	2.0%		361	33	18%	6
South Carolina	10.6%	1,764	1,820		10.8%		8	11%	19
South Dakota	13.2%	2,178	1,395		9.5%		6	4%	7
Tennessee	11.8%	1,726	1,846	6.5%	196		9	11%	13
Texas	9.6%	1,657	1,576	6.0%	116		14	14%	23
Utah	12.0%	651	2,783	4.4%	130		21	5%	13
Vermont	2.9%	357	13,	2.1%	222		62	4%	7
Virginia	7.1%	1,189	2,248	5.6%	163		14	15%	(4)
Washington	4.7%	692	1,523	4.5%	104		15	9%	8
West Virginia	7.8%	1,468	3,388	5.4%	203		17	8%	30
Wisconsin	9.9%	1,133	3,903	2.5%	79		49	5%	17
Wyoming	9.7%	1,201	3,886	4.2%	109		36	3%	5





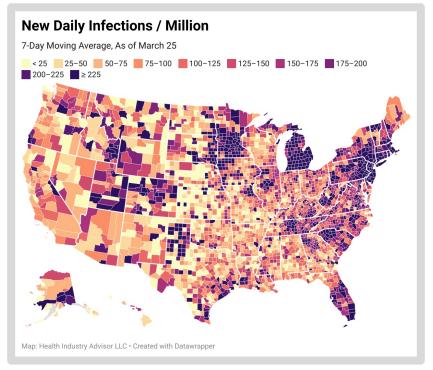
## Metro Areas in the US

New case rates increased week-over-week in Michigan, Minnesota and the Northeast.

### March 18

# **New Daily Infections / Million** 7-Day Moving Average, As of March 18 < 25 25-50 50-75 75-100 100-125 125-150 150-175 175-200 Map: Health Industry Advisor LLC • Created with Datawrapper

### March 25

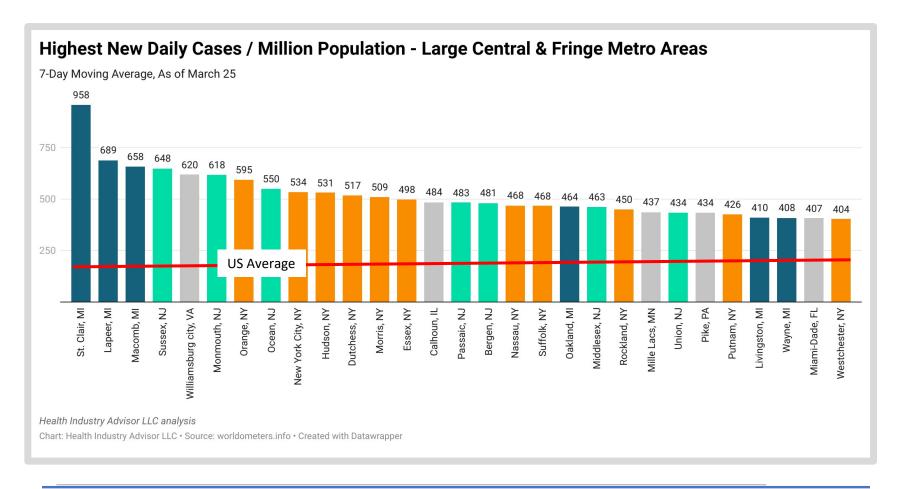






# Large Central and Fringe Metro Areas

High rates of new cases per capita are concentrated in metro areas in Michigan, New Jersey, and New York.







# 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: <a href="https://www.worldometers.info/coronavirus/">https://www.worldometers.info/coronavirus/</a>
- Centers for Disease Control and Prevention, National, Regional, and State Level Outpatient Illness and Viral Surveillance https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html
- 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 https://github.com/nytimes/covid-19-data
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University https://github.com/CSSEGISandData/COVID-19
- COVID-19 Projections Using Machine Learning, <a href="https://covid19-projections.com">https://covid19-projections.com</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, <a href="https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH">https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH</a>

