Community Profile Report

December 22 2020

The Community Profile Report (CPR) is generated by the Data Strategy and Execution Workgroup in the Joint Coordination Cell, under the White House COVID-19 Task Force. It is managed by an interagency team with representatives from multiple agencies and offices (including the United States Department of Health and Human Services, the Centers for Disease Control and Prevention, the Assistant Secretary for Preparedness and Response, and the Indian Health Service). The CPR provides easily interpretable information on key indicators for all regions, states, core-based statistical areas (CBSAs), and counties across the United States. It is a daily snapshot in time that:

- Focuses on recent COVID-19 outcomes in the last seven days and changes relative to the week prior
- Provides additional contextual information at the county, CBSA, state and regional levels
- Supports rapid visual interpretation of results with color thresholds

Data in this report may differ from data on state and local websites. This may be due to differences in how data were reported (e.g., date specimen obtained, or date reported for cases) or how the metrics are calculated. Historical data may be updated over time due to delayed reporting. Data presented here use standard metrics across all geographic levels in the United States. It facilitates the understanding of COVID-19 pandemic trends across the United States by using standardized data. The footnotes describe each data source and the methods used for calculating the metrics. For additional data for any particular locality, visit the relevant health department website. Additional data and features are forthcoming.

White House COVID-19 Task Force, Joint Coordination Cell, Data Strategy and Execution Workgroup
All inquiries and requests for information to DSEW should be directed to COVID-Data-RFI@hhs.gov.

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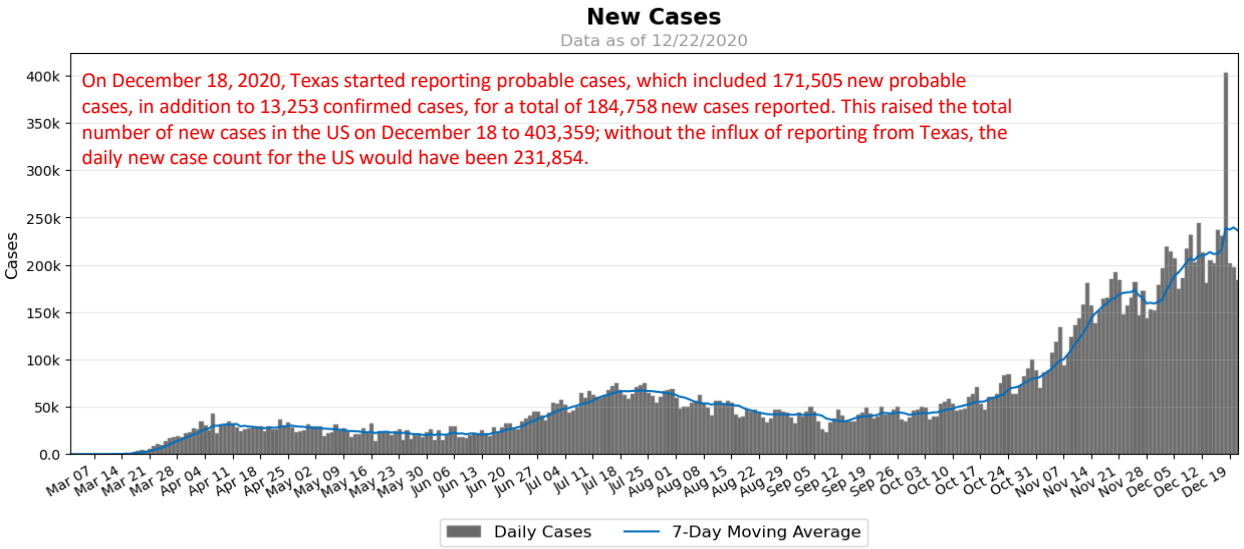
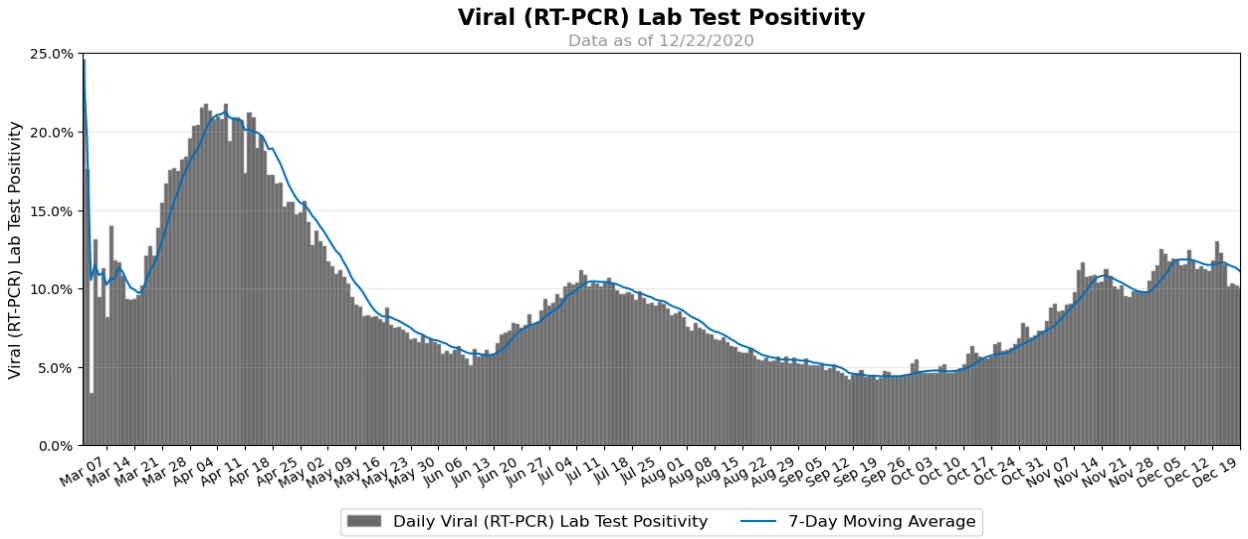
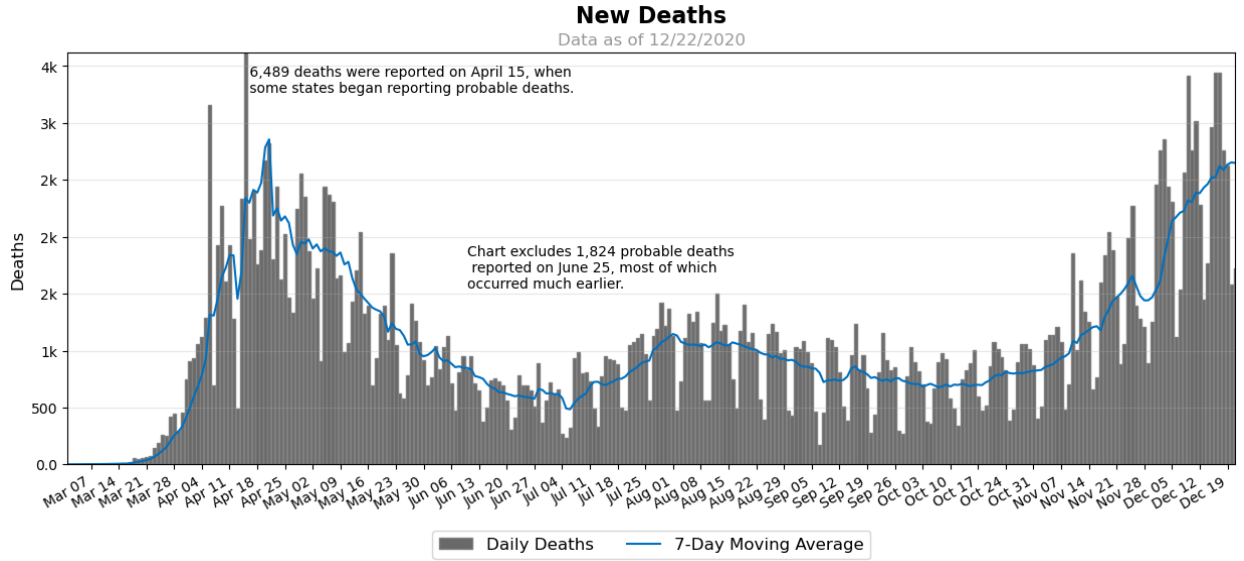
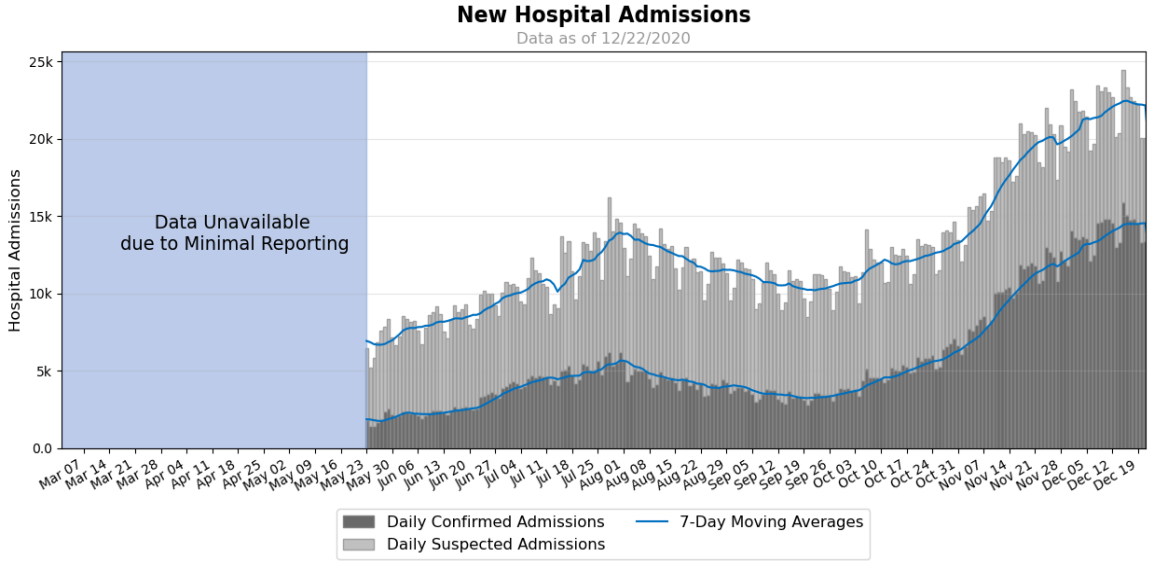
NATIONAL TIME SERIES



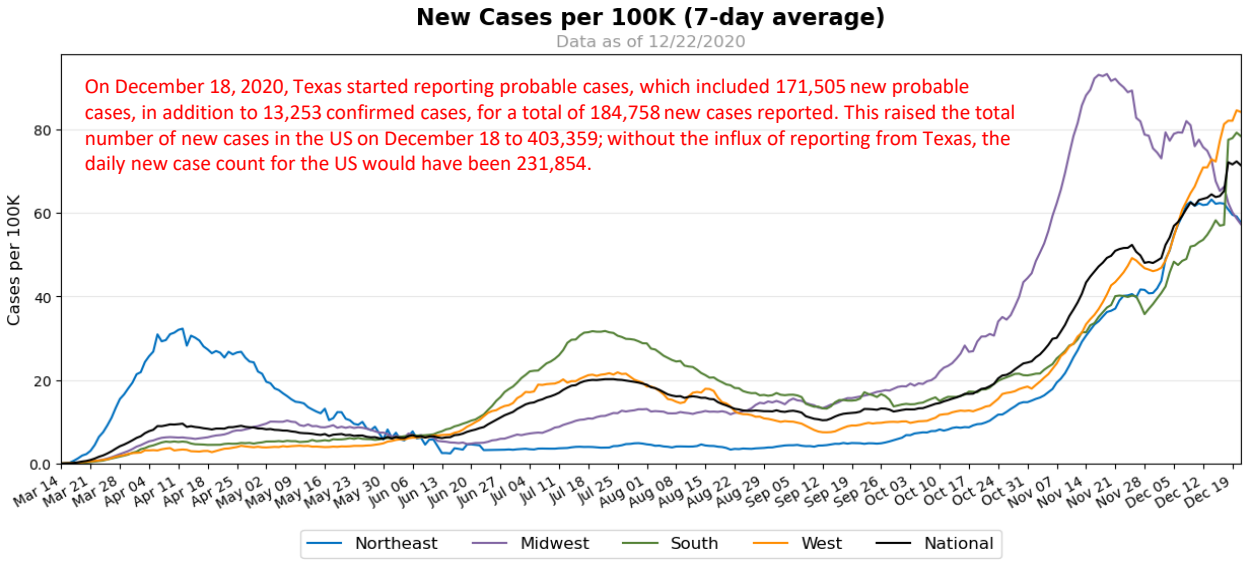


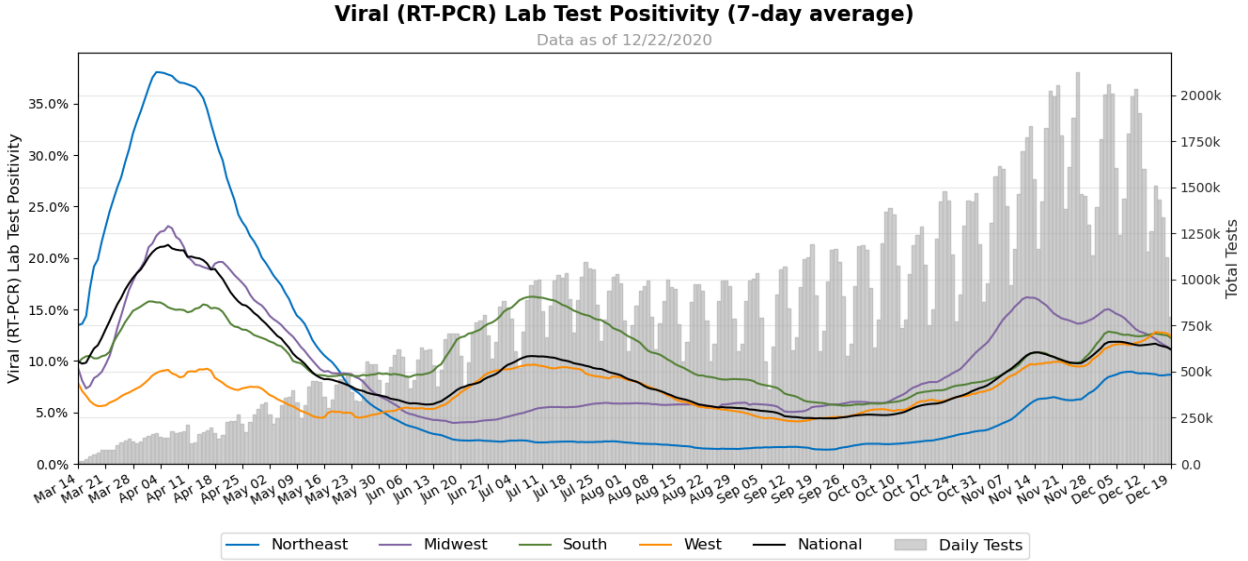


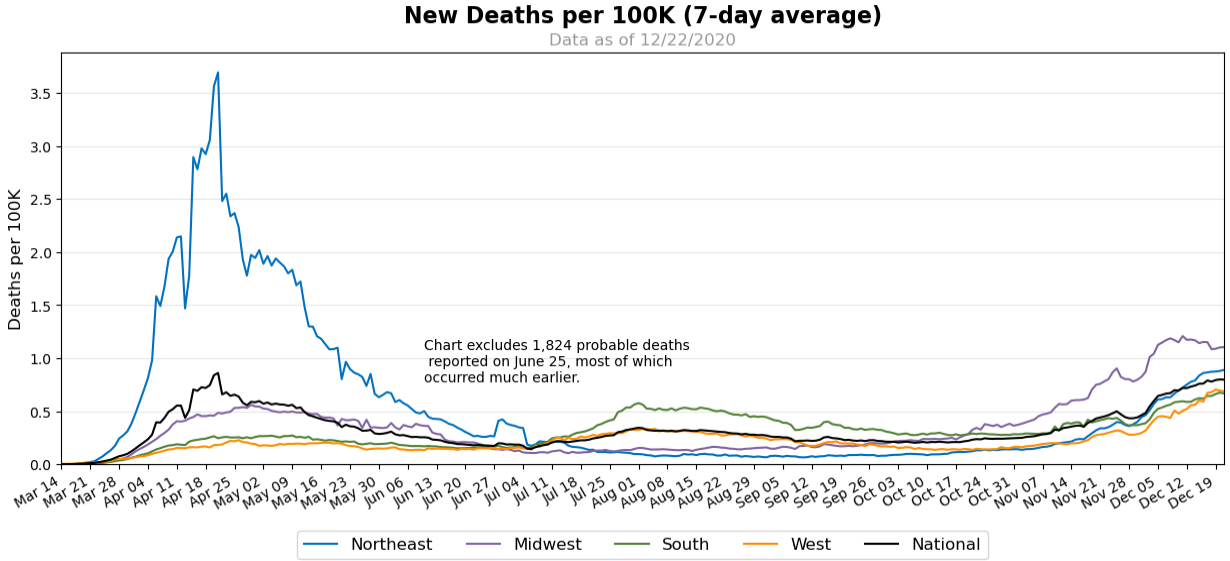


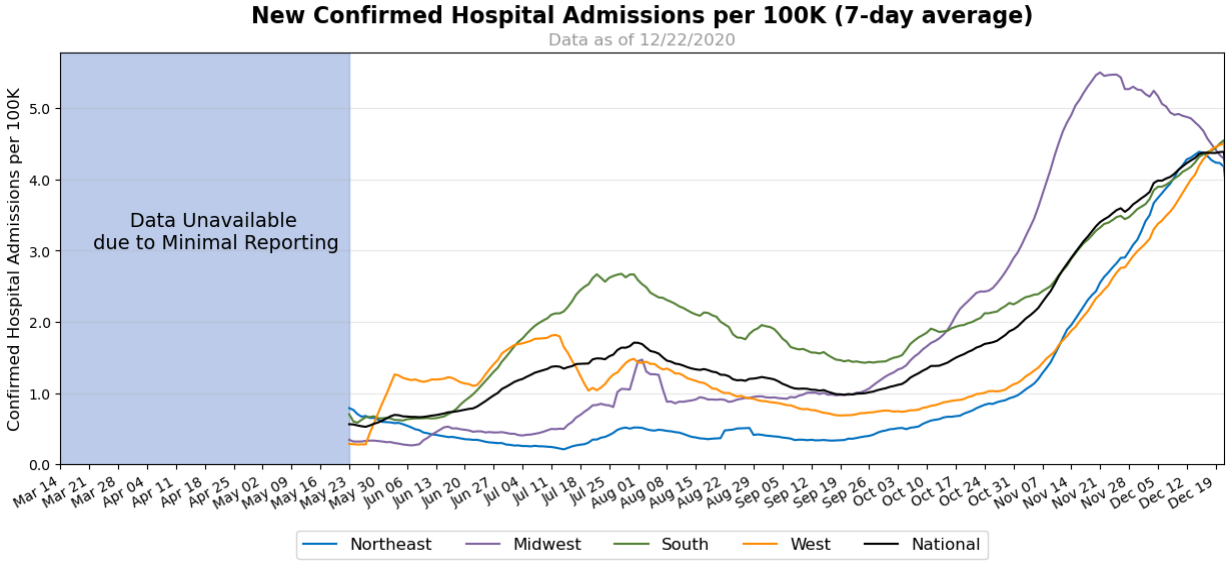
Source: CDC state-reported data (cases and deaths), Unified Testing Dataset, Unified Hospital Dataset.

TIME SERIES BY CENSUS REGION







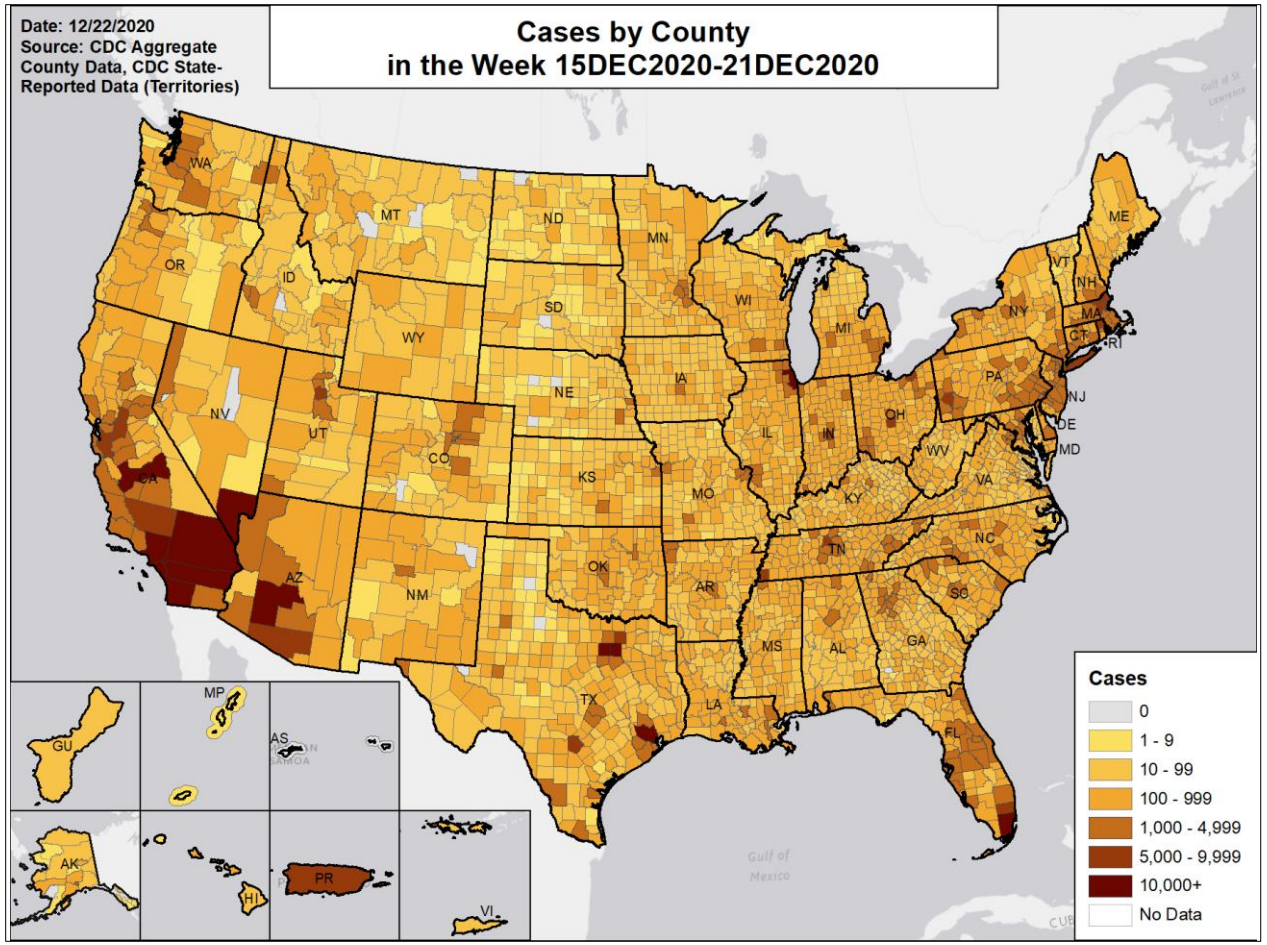


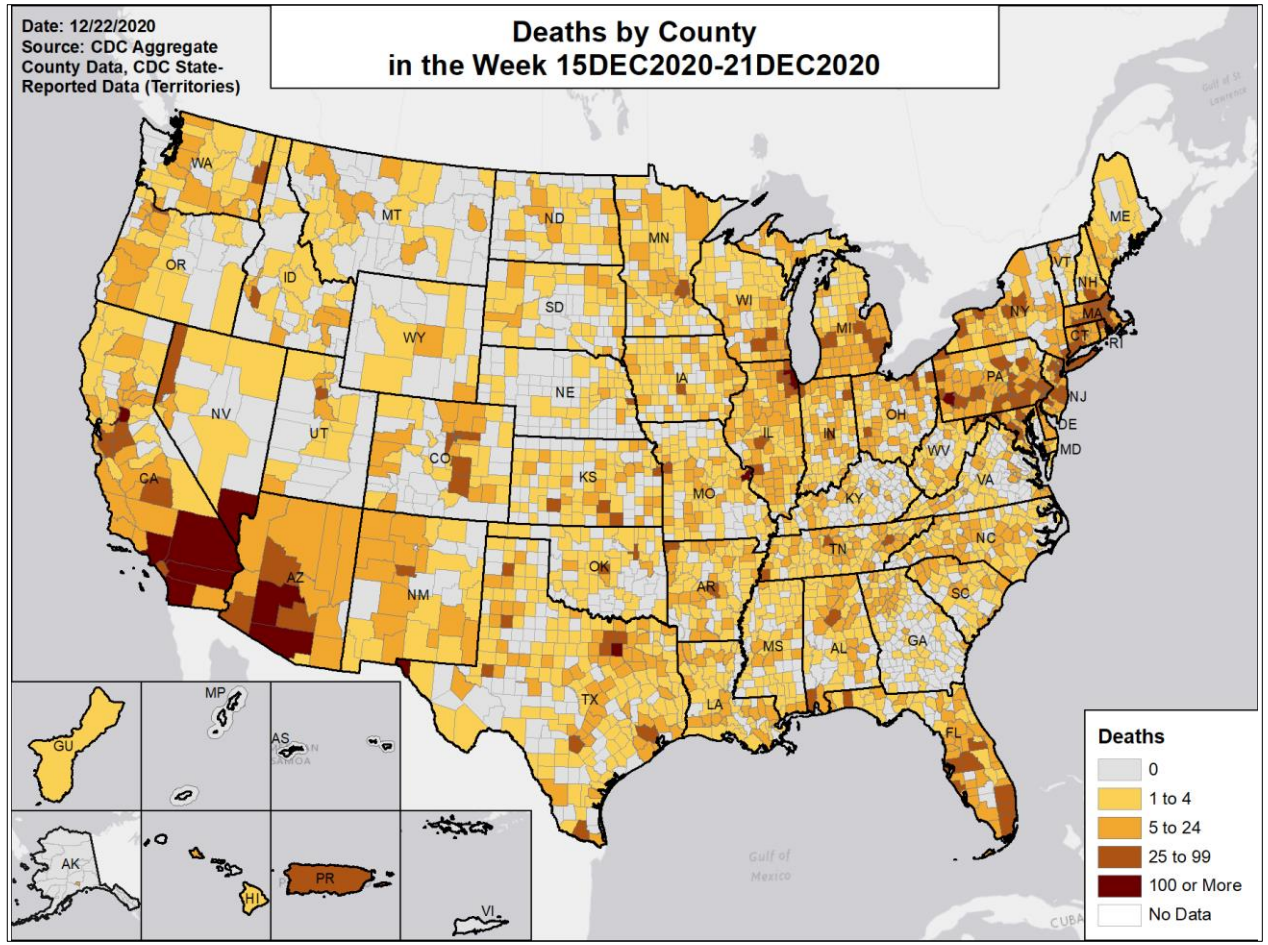
Source: CDC state-reported data (cases and deaths), Unified Testing Dataset, Unified Hospital Dataset.
See https://www.census.gov/geographies/reference-maps/2010/geo/2010-census-regions-and-divisions-of-the-united-states.html for census regions.

NUMBER OF NEW CASES AND DEATHS IN THE LAST 7 DAYS

Total Cumulative Cases: 17,974,303
New Cases in Last 7 Days: 1,656,411
Percent Change from Previous 7 Days: +10.8%

Total Cumulative Deaths: 318,569
New Deaths in Last 7 Days: 18,537
Percent Change from Previous 7 Days: +7.5%

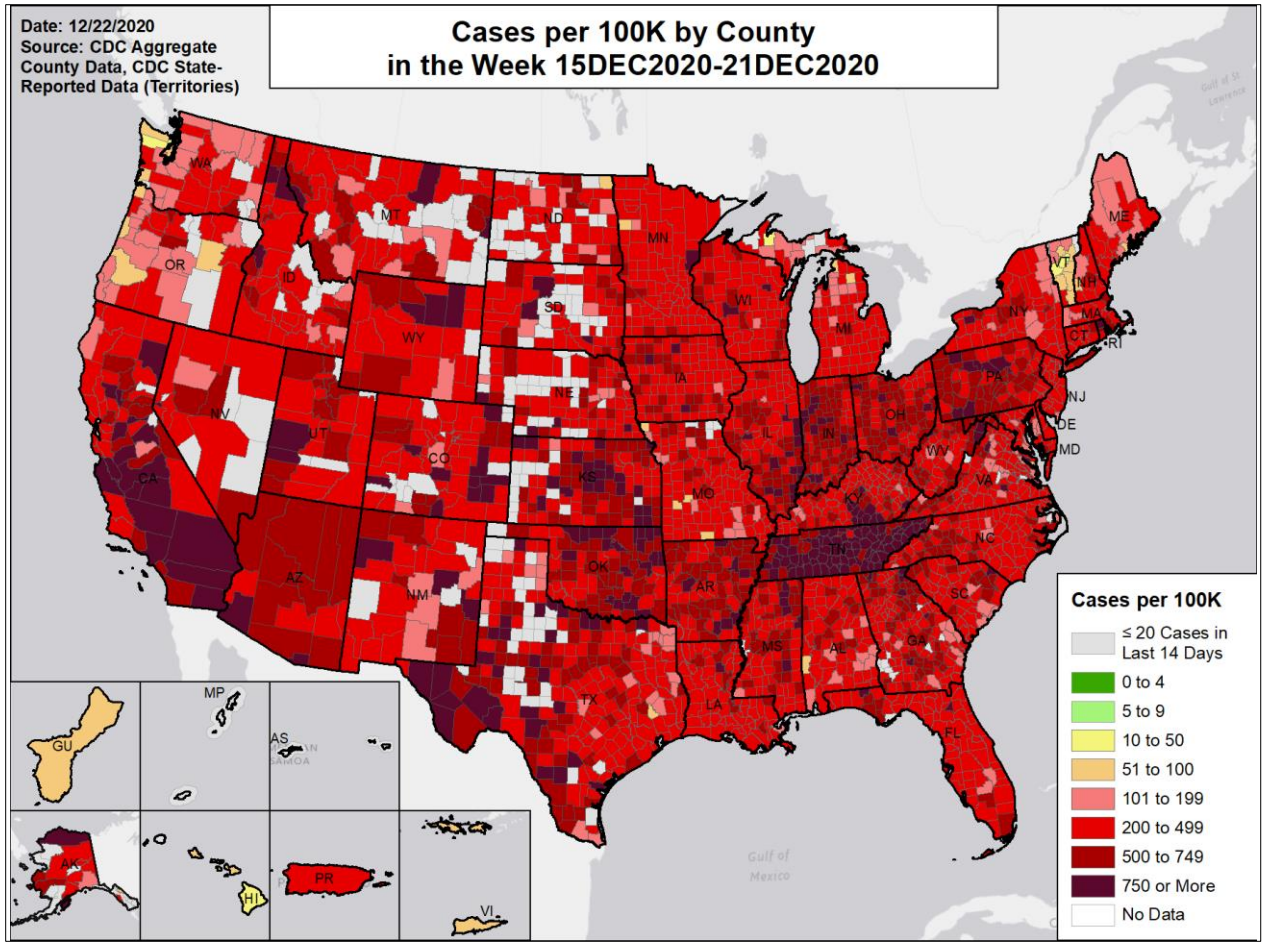


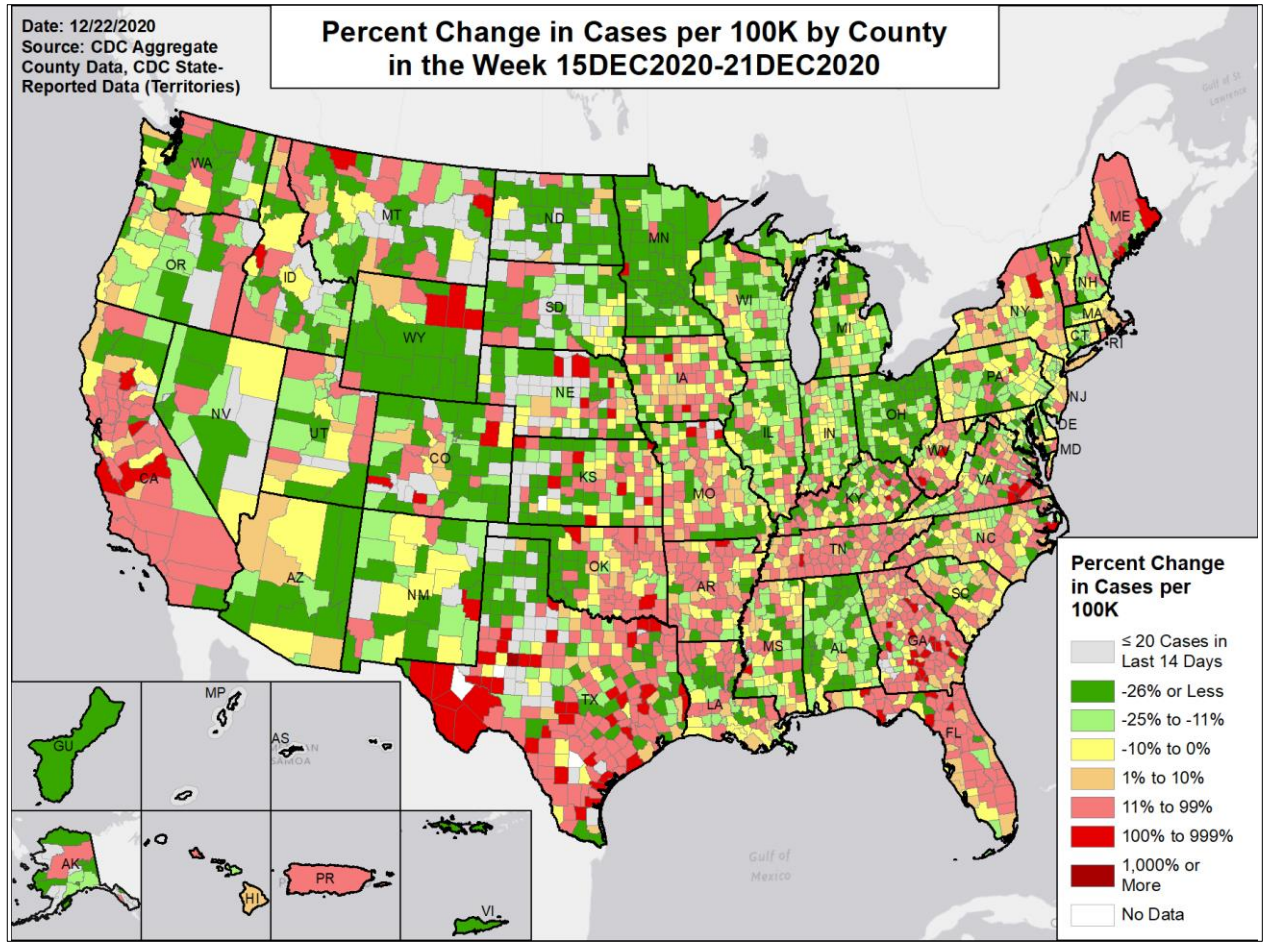


CASE INCIDENCE IN LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

Incidence Rate in the Last 7 Days: 499.2 per 100,000

Percent Change from Previous 7 Days: +10.8%

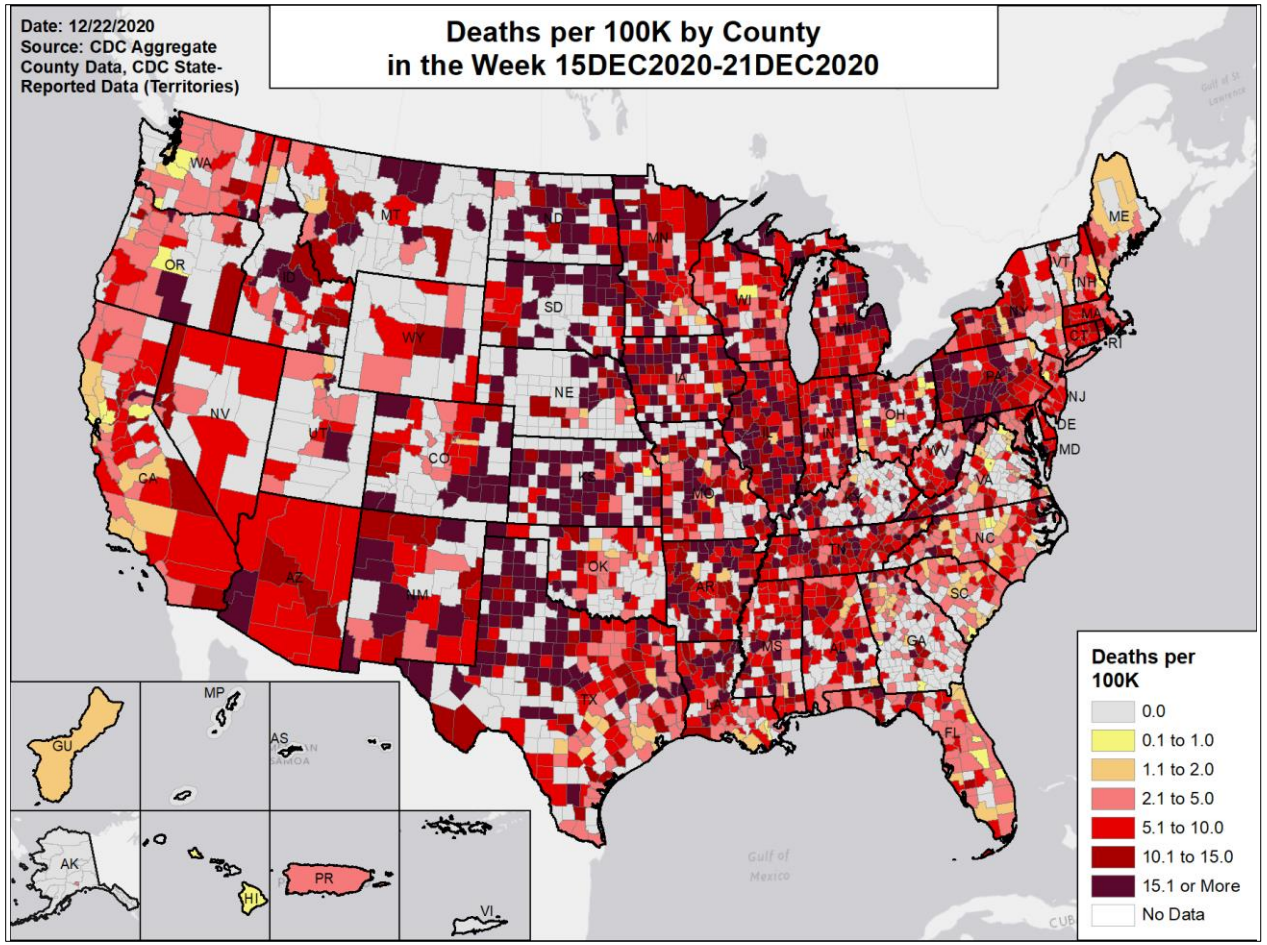


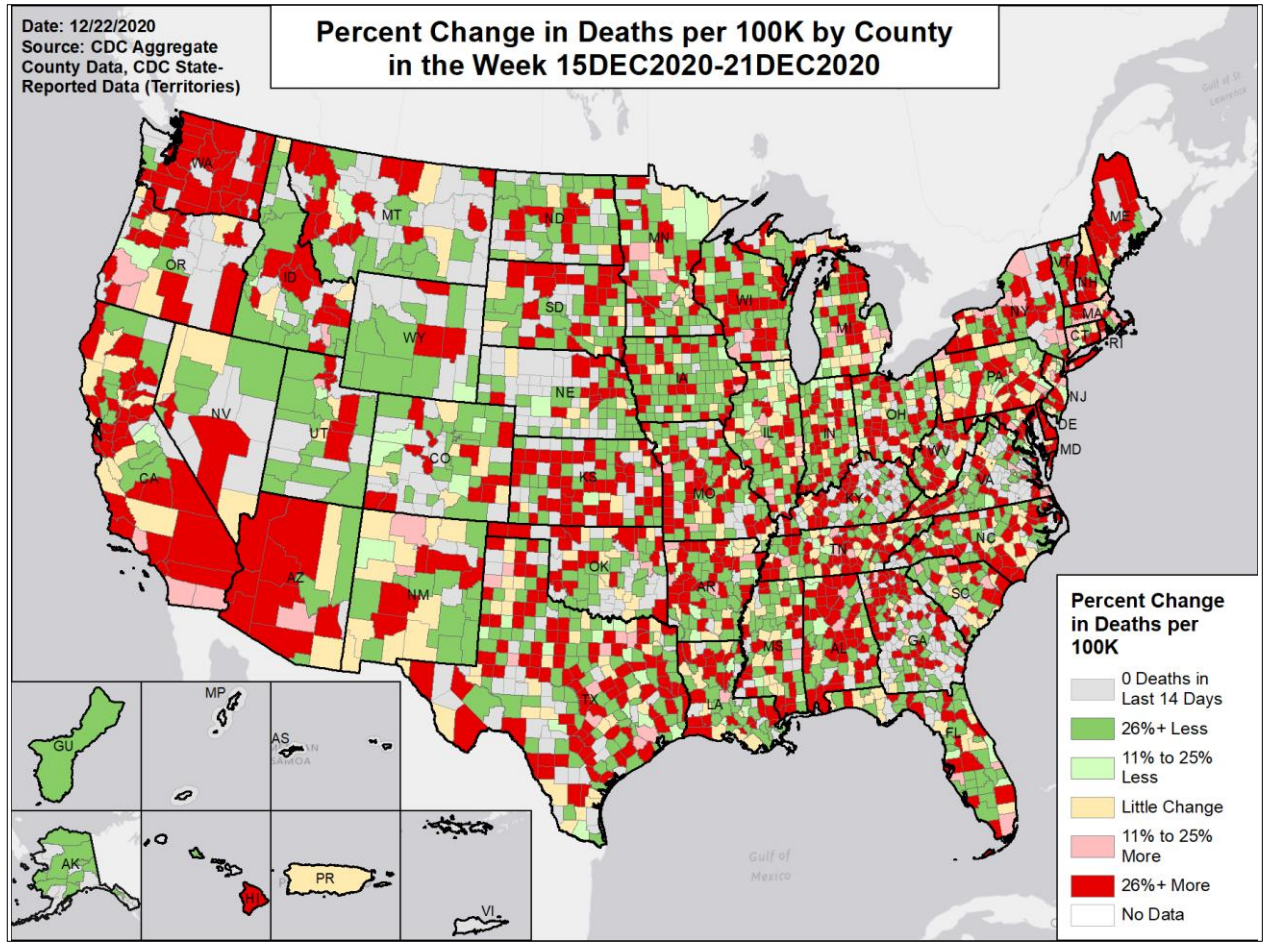


MORTALITY RATE IN THE LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

Mortality Rate in the Last 7 Days: 5.6 deaths per 100,000

Percent Change from Previous 7 Days: +7.5%

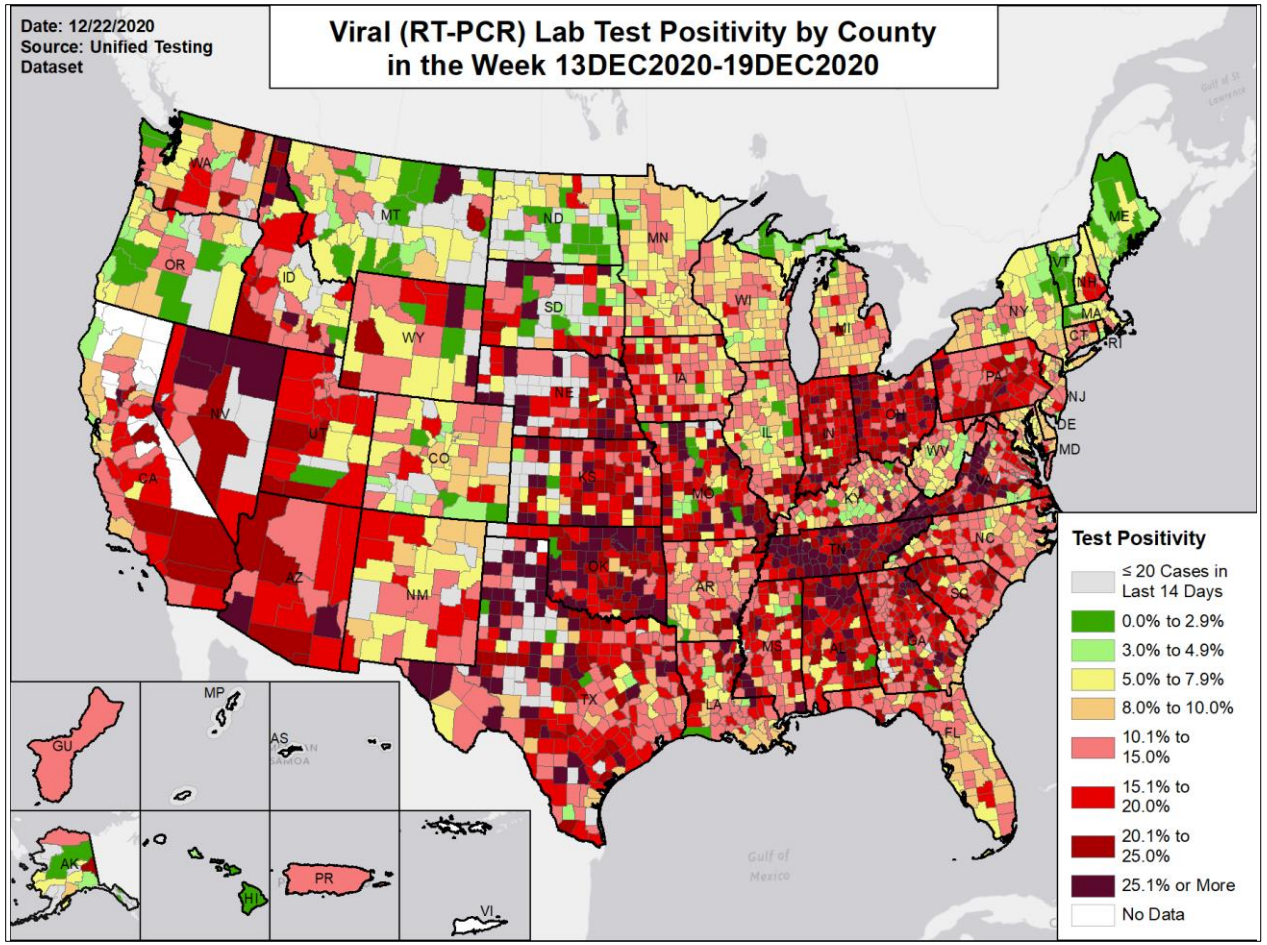


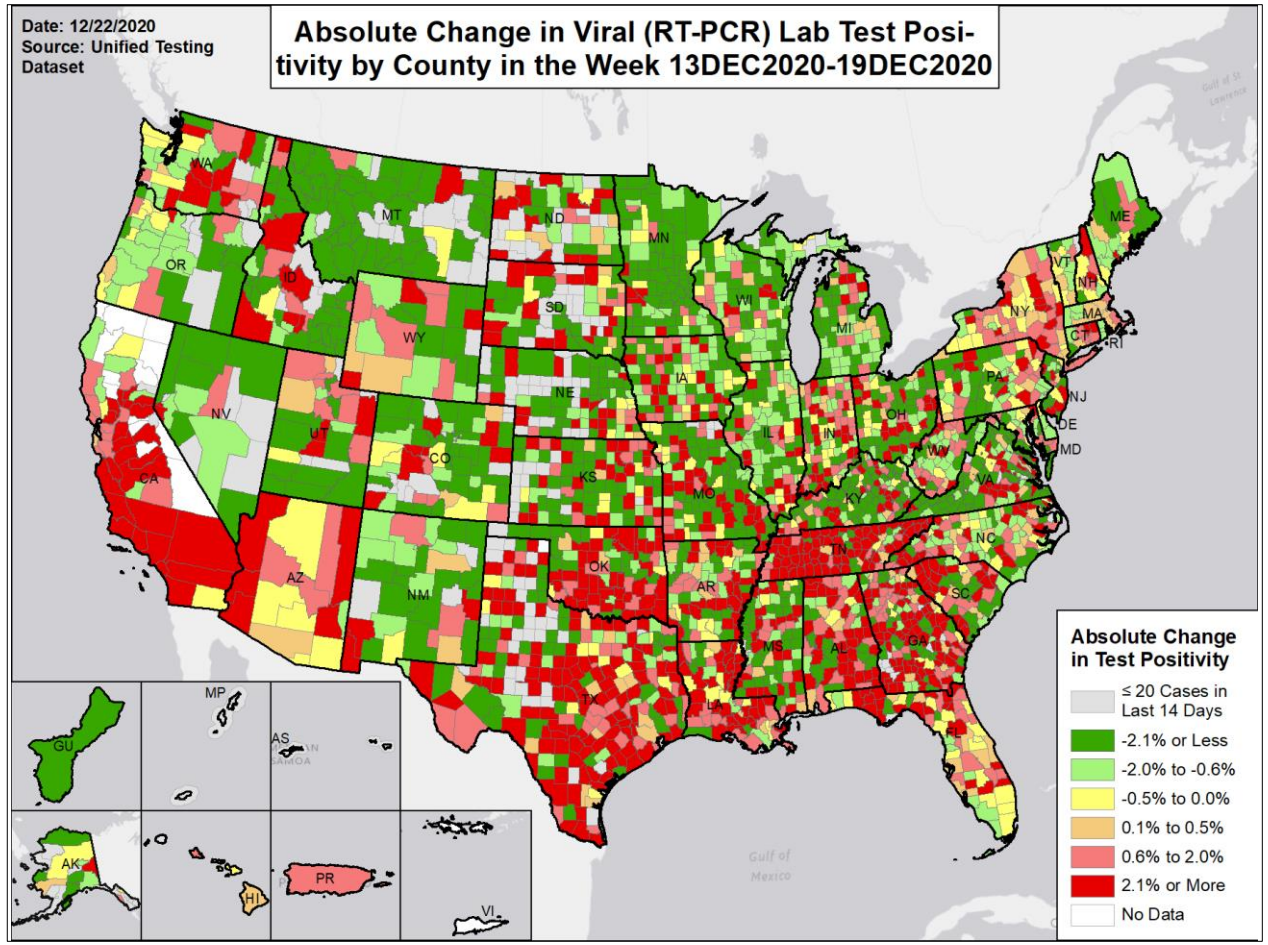


VIRAL (RT-PCR) LAB TEST POSITIVITY IN THE LAST 7 DAYS AND COMPARISON TO PREVIOUS 7 DAYS

Viral (RT-PCR) Lab Test Positivity in Last 7 Days: 11.1%

Absolute Change from Previous 7 Days: -0.4%





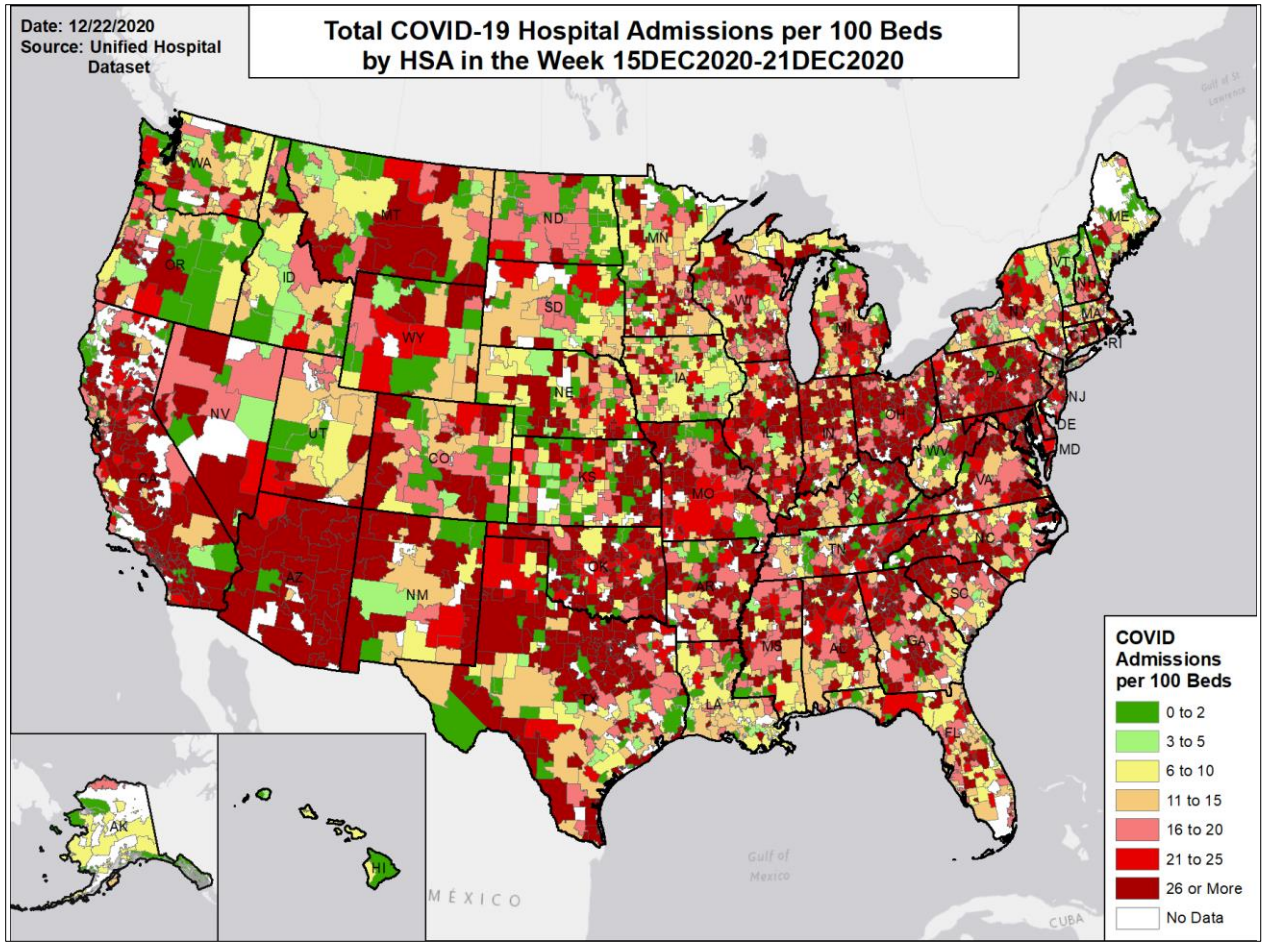
WY and OH county-level test information is provided directly to the federal government and is missing a significant proportion of known state tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states. ME, MO, OK, PR, and WA test information at the county and state levels is provided directly to the federal government and may underestimate the total number of tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states.

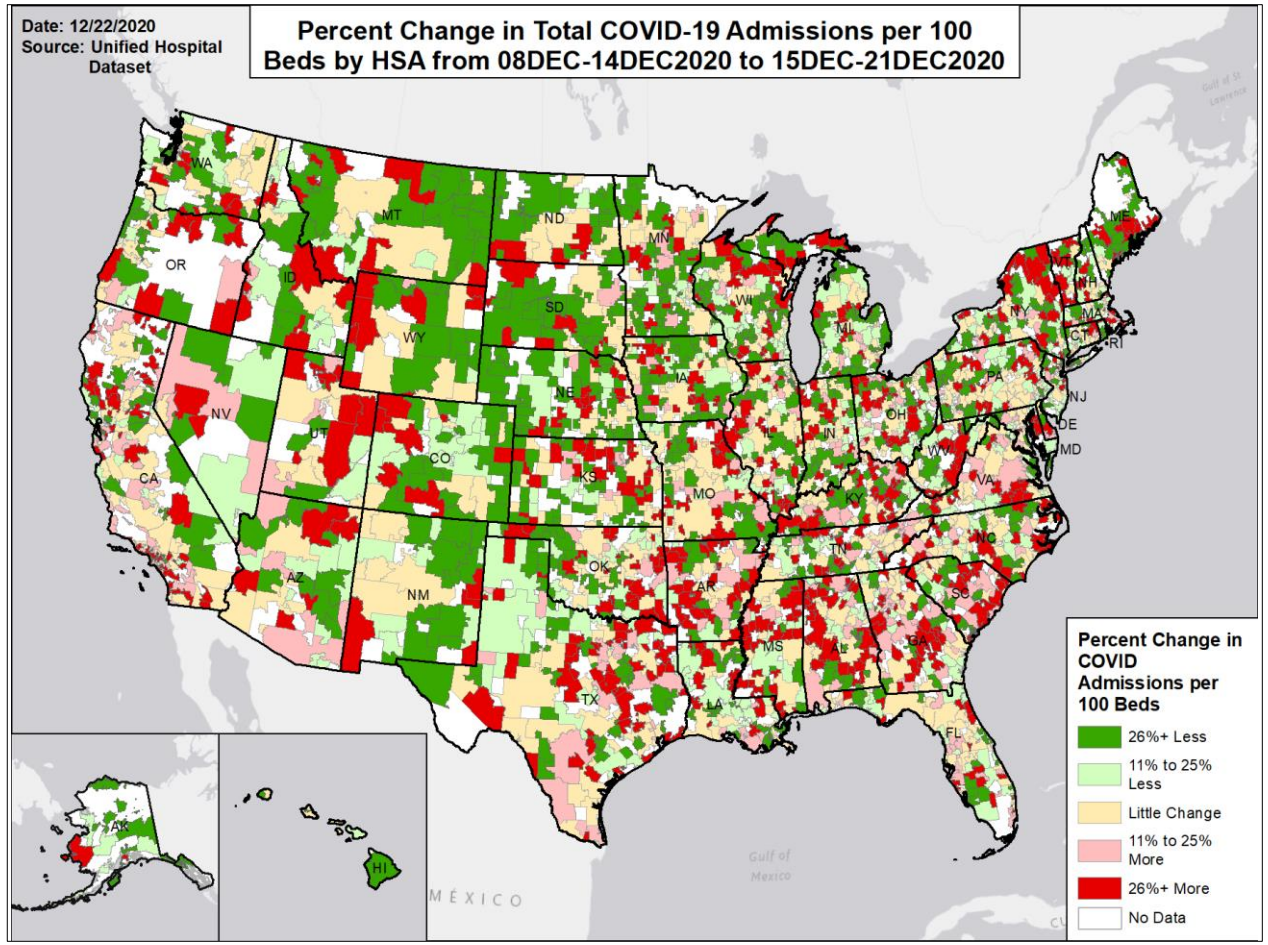
CA, CT, and NJ testing data have not been reported to the federal level since 12/15 (by the data cutoff time for this report), which may result in missing values and inaccurate test positivity.

HOSPITAL ADMISSIONS IN THE LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

Total COVID-19 Hospital Admissions in Last 7 Days: 155,068

Percent Change from Previous 7 Days: -0.6%



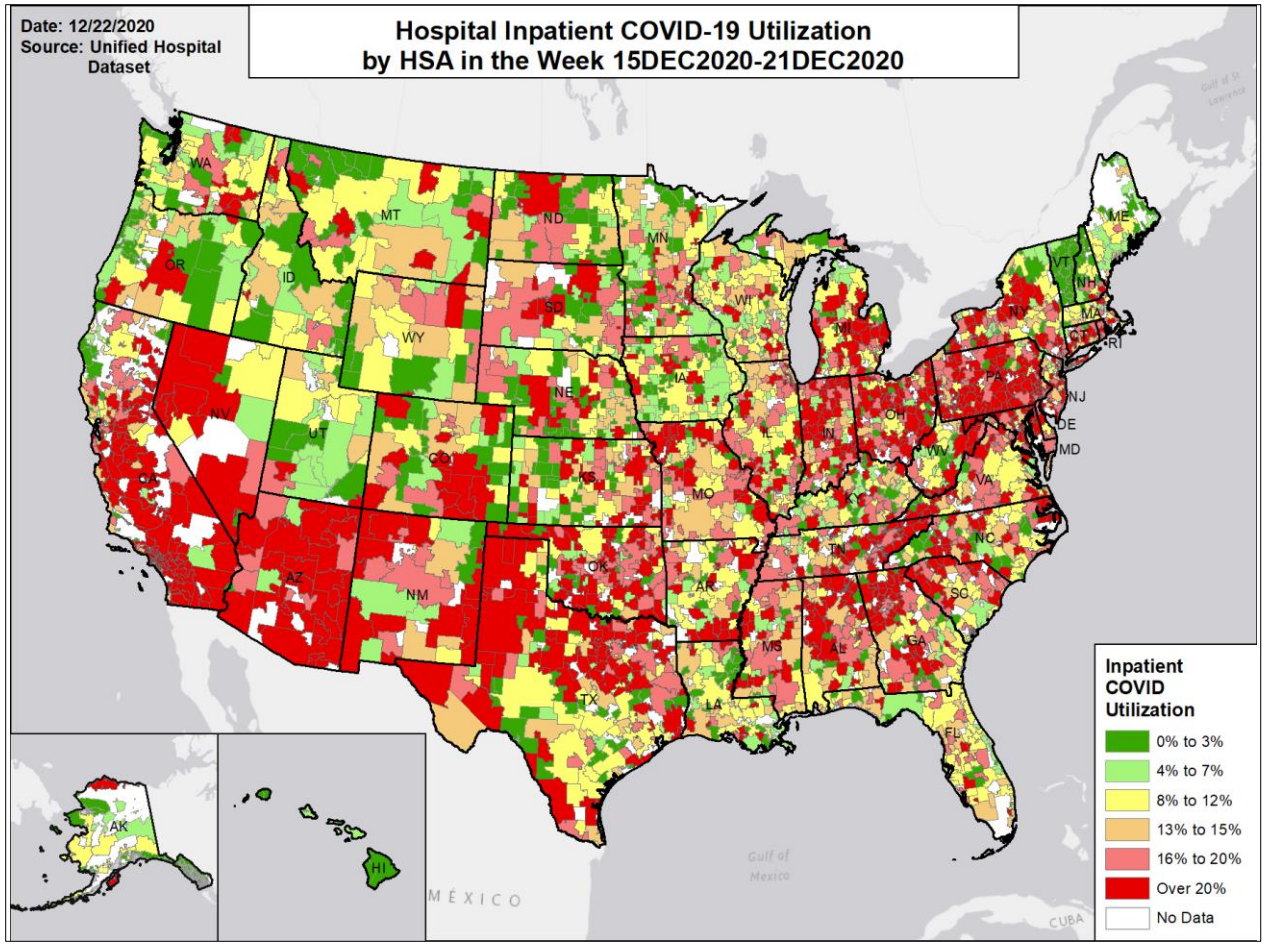


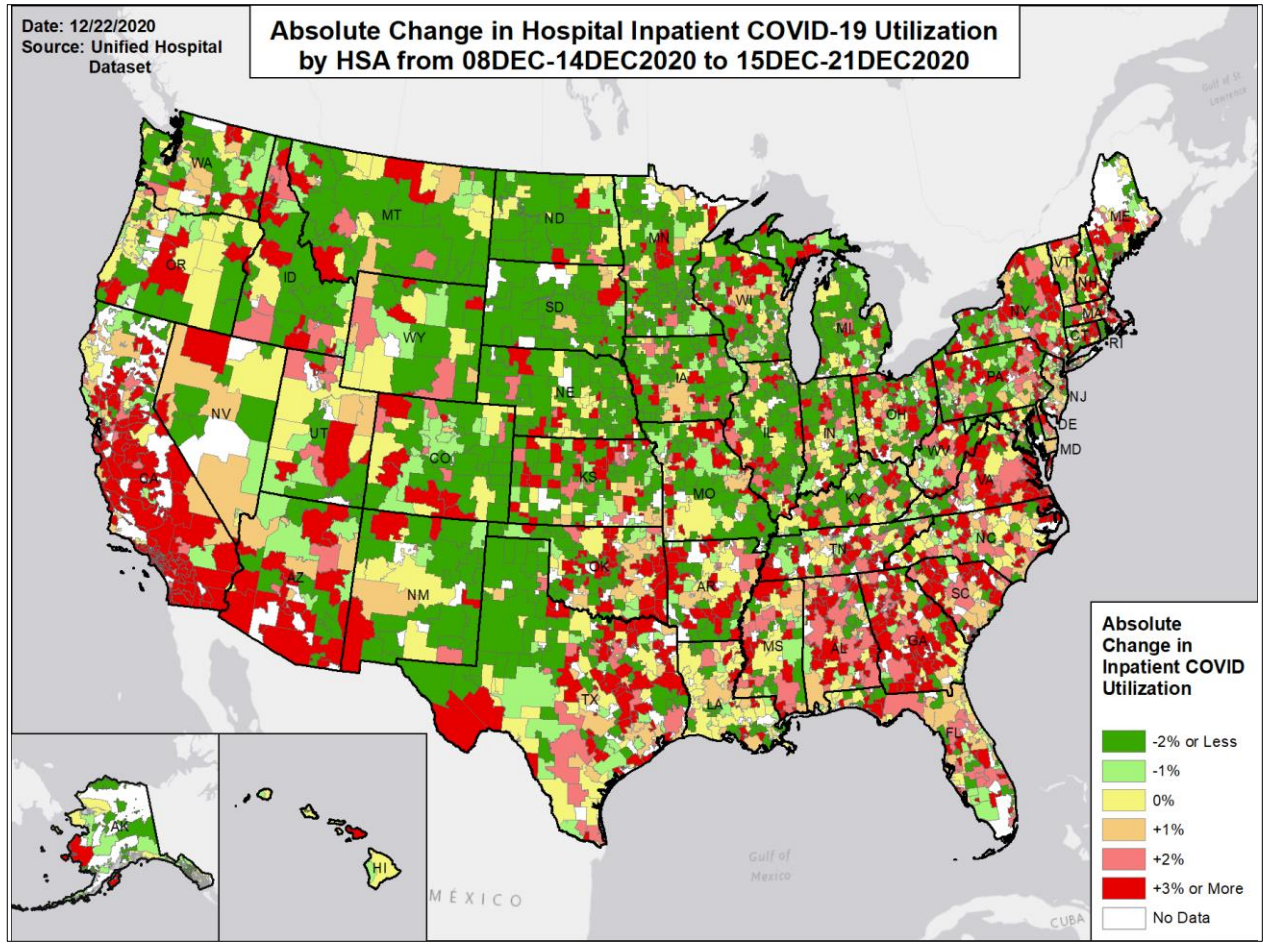
Source: Unified Hospital Dataset, excluding psychiatric, rehabilitation, and religious non-medical hospitals. Total COVID-19 admissions are the sum of confirmed and suspected daily admissions reported within the last 7 days. Denominator of per 100 beds calculation is the sum of average staffed inpatient bed count reported by hospitals within the geographic region and time period. HSA indicates Hospital Service Area. Hospitals are assigned to HSA based on zip code where known. In some areas, reports are aggregates of multiple facilities that cross HSA boundaries; in these cases, values are assigned based on the zip code for the aggregate.

HOSPITAL INPATIENT COVID-19 UTILIZATION IN THE LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

Average COVID-19 Hospital Inpatients in Last 7 Days: 118,940

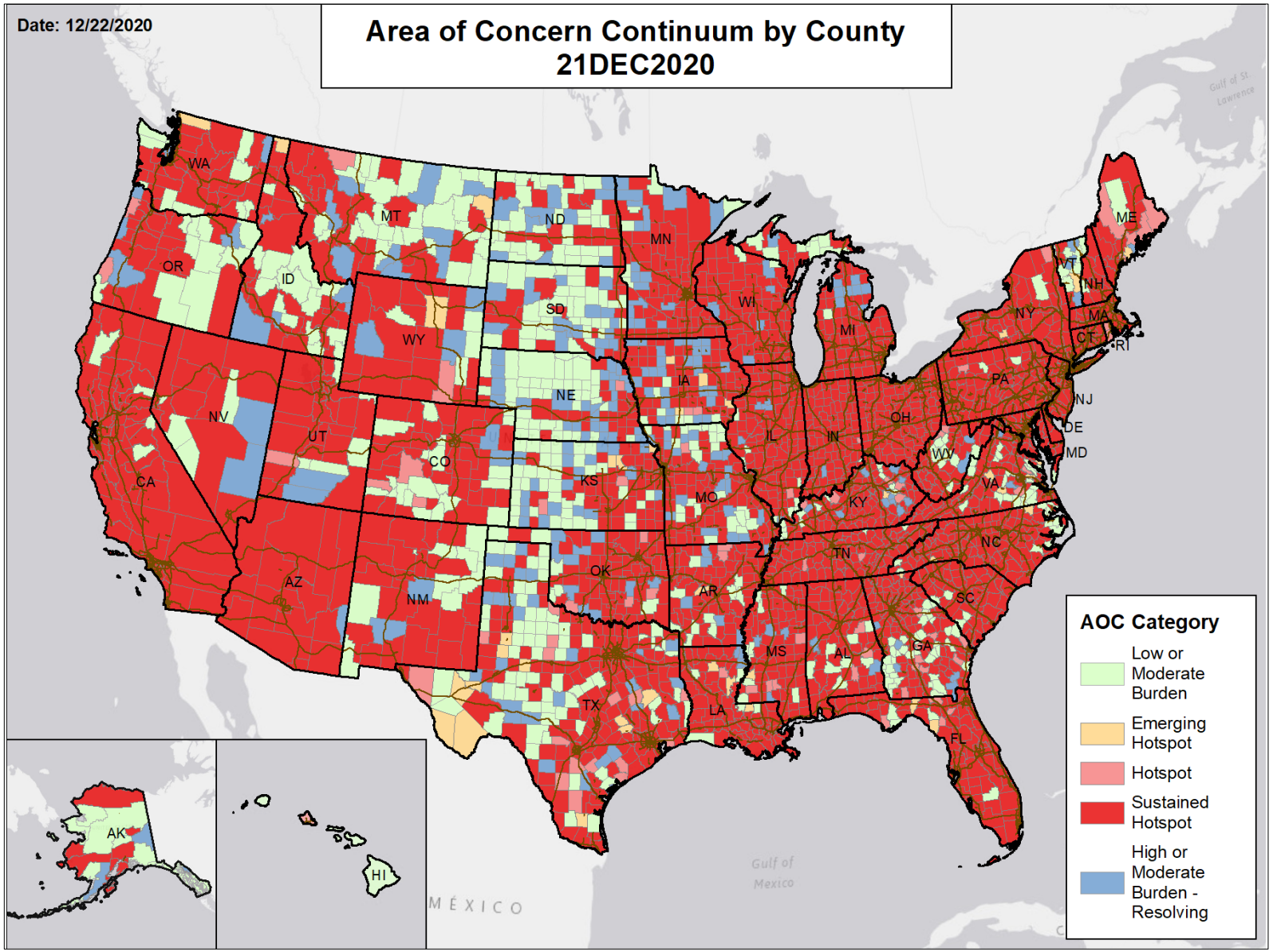
Percent Change from Previous 7 Days: +5.1%





Source: Unified Hospital Dataset, excluding psychiatric, rehabilitation, and religious non-medical hospitals. COVID-19 inpatient utilization indicates average percentage of staffed inpatient beds occupied by COVID-19 patients within the given time period. HSA indicates Hospital Service Area. Hospitals are assigned to HSA based on zip code where known. In some areas, reports are aggregates of multiple facilities that cross HSA boundaries; in these cases, values are assigned based on the zip code for the aggregate. See Data Sources/Methods slides for additional details.

AREA OF CONCERN CONTINUUM



The Areas of Concern Continuum (AOCC) is used to describe communities as they progress through stages of the epidemic. There are 7 possible AOC classifications based on current and recent history of case and testing data for the location:

(1) **Low Burden** – communities with minimal activity

(2) **Moderate Burden** – communities with moderate disease activity

(3) **Emerging Hotspot** – communities with a high likelihood to become hotspots in the next 1-7 days

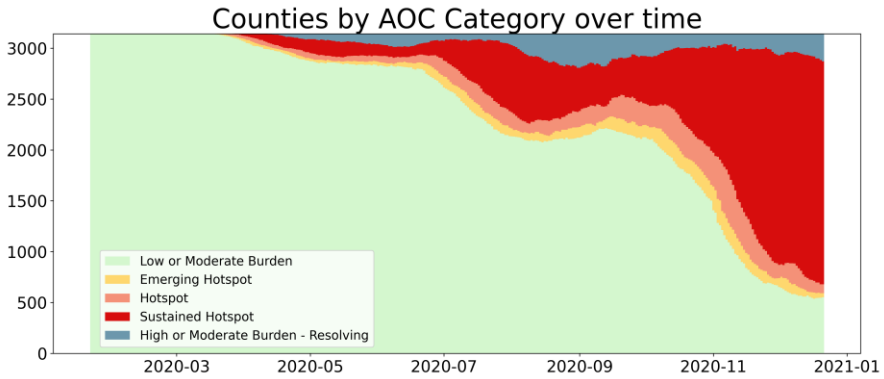
(4) **Hotspot** – communities that have reached a threshold of disease activity considered as being of high burden

(5) **Sustained Hotspot** – communities that have had a high sustained case burden and may be higher risk for experiencing healthcare resource limitations

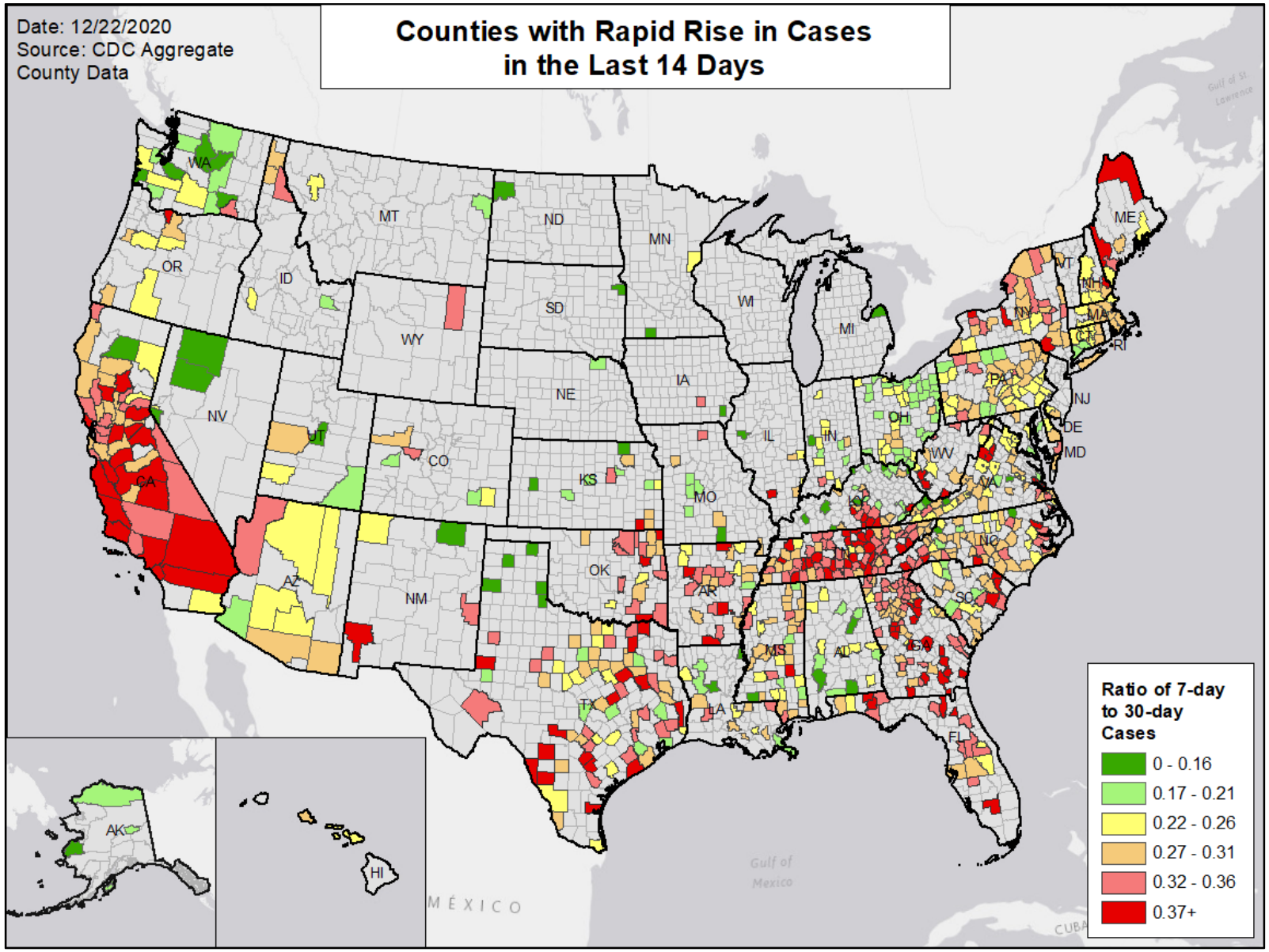
(6) **High Burden – Resolving** – communities that were recently identified as hotspots and are now improving

(7) **Moderate Burden – Resolving** – communities that have a moderate level of burden, but are demonstrating improvement

See Data Sources/Methods slides for more information.



AREA OF CONCERN CONTINUUM – RAPID RISER COUNTIES



This map shows counties that have seen a rapid rise in cases within the last 14 days by meeting the following **Rapid Riser County** criteria:

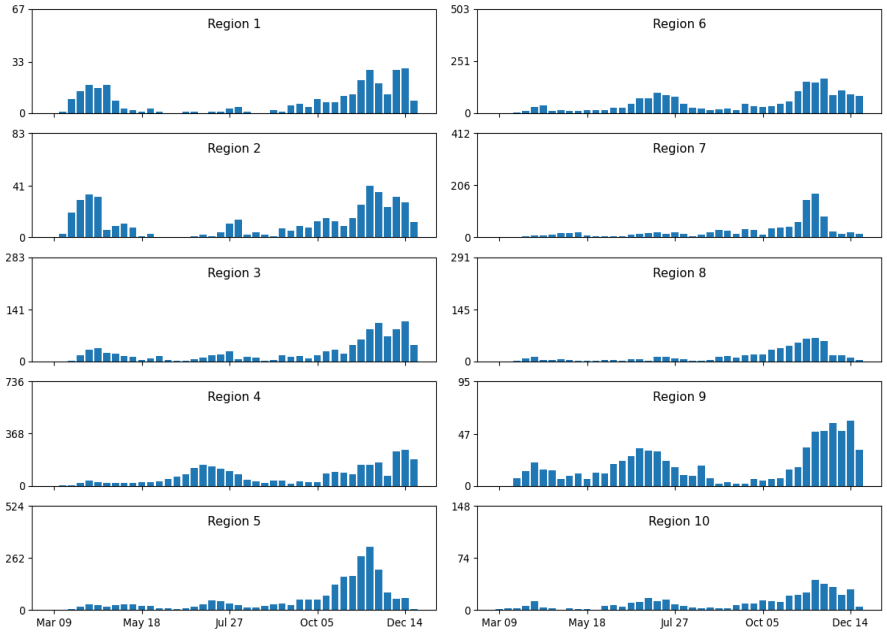
- >100 new cases in last 7 days
- >0% change in 7-day incidence
- >-60% change in 3-day incidence
- 7-day incidence / 30-day incidence ratio >0.31
- one or both of the following triggering criteria: (a) >60% change in 3-day incidence,
  (b) >60% change in 7-day incidence

The color indicates *current* acceleration in cases (ratio of 7-day to 30-day cases). Counties in **light red** and **red** are continuing to see accelerating cases in the most recent week, while those in **dark green** and **green** may have seen declines in the most recent week.

The bar charts below show the history of rapid riser counties by FEMA region and week, indicating when different geographic areas have seen the greatest acceleration in cases.

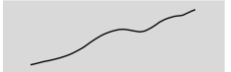
# of Distinct Rapid Riser Counties by Week and FEMA Region

(vertical axis scaled to number of counties in region)



NATIONAL AND REGIONAL METRICS

National Metrics

	Last 7 days				Change from previous week				Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Confirmed admissions (per 100 beds)	Deaths (per 100k)	Percent change in cases	Absolute change in test pos.	Percent change in conf. adm. per 100 beds	Percent change in deaths	
U.S. Total – Last 7 Days	1,656,411 (499)	11.1%	101,785 (14)	18,537 (5.6)	+11%	-0.4%	+2%	+7%	
U.S. Total – 1 Week Ago	1,494,763 (450)	11.5%	99,779 (14)	17,247 (5.2)	+9%	-0.3%	+7%	+11%	
U.S. Total – December Peak	1,677,232 (505)	11.8%	101,785 (14)	18,578 (5.6)					
U.S. Total – November Peak	1,214,631 (366)	10.9%	85,632 (12)	11,606 (3.5)					
U.S. Total – October Peak	562,269 (169)	7.3%	43,972 (6)	5,757 (1.7)					
U.S. Total – September Peak	307,790 (93)	5.4%	28,194 (4)	6,324 (1.9)					
U.S. Total – August Peak	439,184 (132)	8.4%	39,604 (6)	8,020 (2.4)					
U.S. Total – July Peak	470,310 (142)	10.5%	39,646 (6)	7,857 (2.4)					
U.S. Total – June Peak	288,588 (87)	9.0%	25,255 (4)	7,166 (2.2)					
U.S. Total – May Peak	196,441 (59)	13.6%	N/A	13,844 (4.2)					
U.S. Total – April Peak	223,497 (67)	21.3%	N/A	19,993 (6.0)					

On December 18, 2020, Texas started reporting probable cases, which included 171,505 new probable cases, in addition to 13,253 confirmed cases, for a total of 184,758 new cases reported. This raised the total number of new cases in the US on December 18 to 403,359; without the influx of reporting from Texas, the daily new case count for the US would have been 231,854.

CA, CT, and NJ testing data have not been reported to the federal level since 12/15 (by the data cutoff time for this report), which may result in missing values and inaccurate test positivity.

Last 7 days indicates cases/deaths/admissions data from 12/15-12/21 and testing data from 12/13-12/19.

Regional Metrics

FEMA Region	Population	Last 7 days				Change from previous week				Daily case trend – last 8 weeks
		Cases (per 100k)	Viral (RT-PCR) lab test positivity	Confirmed admissions (per 100 beds)	Deaths (per 100k)	Percent change in cases	Absolute change in test pos.	Percent change in conf. adm. per 100 beds	Percent change in deaths	
9	51,555,755	365,865 (710)	15.7%	19,892 (23)	2,493 (4.8)	+25%	+3.3%	+17%	+41%	
6	42,716,279	329,781 (772)	13.7%	14,746 (15)	2,429 (5.7)	+110%	+1.0%	+8%	+3%	
4	66,908,139	310,818 (465)	12.3%	21,772 (14)	2,876 (4.3)	+8%	-0.3%	+9%	+12%	
5	52,542,063	214,394 (408)	10.8%	15,994 (14)	3,914 (7.4)	-23%	-1.7%	-9%	-3%	
3	30,854,848	121,277 (393)	12.4%	9,185 (13)	2,141 (6.9)	-10%	-0.9%	-1%	+11%	
2	31,635,850	108,814 (344)	7.4%	8,492 (11)	1,410 (4.5)	-1%	-0.1%	-5%	+18%	
1	14,845,063	59,980 (404)	6.7%	3,177 (10)	813 (5.5)	-13%	-0.4%	-4%	+9%	
7	14,140,220	53,849 (381)	14.2%	4,149 (12)	1,181 (8.4)	-9%	-1.4%	-8%	-10%	
8	12,258,952	48,987 (400)	9.6%	2,719 (11)	791 (6.5)	-21%	-1.7%	-16%	-28%	
10	14,351,240	42,646 (297)	8.2%	1,659 (7)	489 (3.4)	-1%	-1.6%	+5%	+87%	

STATE PROFILES AND WEEKLY CATEGORIES

Weekly Categorization of States/DC: color categories based on last week's test positivity data (baseline dates: December 10-16)
Case Data from December 15-21, Test Positivity Data from December 13-19

Red States

State	Last 7 days			Change from previous week			Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Confirmed admissions (per 100 beds)	Pct. change in cases	Abs. change in test positivity	Pct., change in conf. adm. per 100 beds	
OK	31,752 (802)	21.6%	2,337 (25)	-8%	+1.6%	12%	
TN	64,954 (951)	21.5%	2,406 (15)	+16%	+3.6%	8%	
AL	26,937 (549)	18.7%	2,497 (18)	+5%	+1.2%	14%	
NV	16,472 (535)	18.6%	1,251 (17)	-12%	-3.0%	-4%	
AZ	41,097 (565)	17.8%	3,379 (24)	-24%	+0.1%	8%	
IN	37,818 (562)	16.2%	2,495 (15)	-12%	+0.0%	-5%	
NE	7,759 (401)	16.1%	419 (9)	-6%	-0.8%	-23%	
MO	20,713 (337)	15.7%	2,022 (13)	-9%	-1.3%	-5%	
SC	20,957 (407)	15.3%	1,329 (14)	+4%	+0.6%	21%	
PA	63,825 (499)	15.2%	4,939 (16)	-13%	-0.6%	-5%	
VA	26,173 (307)	15.1%	1,621 (10)	+2%	-2.6%	13%	
UT	16,911 (527)	15.1%	619 (12)	-7%	-0.5%	7%	
ID	8,660 (485)	14.9%	371 (12)	-16%	-5.1%	-5%	
CA†	307,304 (778)		15,208 (24)	+41%		22%	
MS	14,391 (484)	14.9%	1,079 (14)	-6%	-0.8%	6%	
KS	14,582 (501)	14.5%	1,100 (14)	-9%	-1.4%	-2%	
TX*	254,852 (879)	14.4%	9,206 (14)	+223%	+1.4%	11%	
GA	44,880 (423)	13.9%	3,623 (19)	+13%	+1.0%	14%	
NH	5,513 (405)	13.9%	271 (10)	-9%	-0.4%	-5%	
OH	58,752 (503)	13.7%	4,613 (16)	-32%	-1.4%	-3%	
SD	3,720 (421)	12.3%	210 (9)	-23%	-1.1%	-18%	
AR	16,050 (532)	11.9%	1,108 (14)	+7%	+0.3%	11%	
CT†	13,385 (375)		933 (12)	-26%		-7%	
IA	10,795 (342)	11.4%	608 (8)	-10%	-1.6%	-17%	
KY	19,407 (434)	11.4%	2,801 (23)	-13%	-2.4%	-8%	
NC	42,282 (403)	11.3%	2,378 (11)	+1%	-0.2%	10%	
NM	9,509 (453)	11.2%	789 (21)	-16%	-1.9%	-9%	
LA	17,618 (379)	11.1%	1,306 (10)	+1%	+1.3%	-4%	
FL	77,010 (359)	10.3%	5,659 (11)	+15%	+0.3%	12%	
IL	48,951 (386)	10.2%	3,423 (12)	-18%	-1.3%	-7%	
NJ†	30,315 (341)		2,895 (15)	-10%		-4%	
MI	28,335 (284)	9.4%	2,457 (12)	-22%	-1.9%	-18%	

Orange States

State	Last 7 days			Change from previous week			Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Confirmed admissions (per 100 beds)	Pct. change in cases	Abs. change in test positivity	Pct. change in conf. adm. per 100 beds	
WV	8,943 (499)	10.1%	552 (11)	+8%	-0.1%	-6%	
DE	4,599 (472)	9.0%	346 (14)	-20%	-0.3%	-2%	
MD	16,035 (265)	8.8%	1,524 (16)	-17%	-0.5%	-0%	
WI	23,068 (396)	8.7%	2,096 (17)	-17%	-1.6%	-12%	
WY	2,343 (405)	8.3%	165 (12)	-16%	-1.6%	-5%	
WA	22,838 (300)	8.1%	722 (6)	+18%	-0.6%	7%	
CO	19,932 (346)	7.8%	1,233 (12)	-25%	-2.3%	-22%	
MN	17,470 (310)	7.7%	910 (9)	-32%	-2.6%	-22%	
MT	4,021 (376)	7.6%	324 (11)	-15%	-6.0%	-24%	

*On December 18, 2020, Texas started reporting probable cases, which included 171,505 new probable cases, in addition to 13,253 confirmed cases, for a total of 184,758 new cases reported. This raised the total number of new cases in the US on December 18 to 403,359; without the influx of reporting from Texas, the daily new case count for the US would have been 231,854.

†CA, CT, and NJ testing data have not been reported to the federal level since 12/15 (by the data cutoff time for this report), which may result in missing values and inaccurate test positivity.

The Weekly Categories slide indicates which states fell in the red, orange, yellow, light green, and dark green categories for test positivity at the beginning of the week (as of Sunday data). The indicators shown here are fixed throughout the week and provide a common reference point for states from week to week.

STATE PROFILES AND WEEKLY CATEGORIES CONT.

Weekly Categorization of States/DC: color categories based on last week's test positivity data (baseline dates: December 10-16)
Case Data from December 15-21, Test Positivity Data from December 13-19

Yellow States

State	Last 7 days			Change from previous week			Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Confirmed admissions (per 100 beds)	Perc. change in cases	Abs. change in test positivity	Perc, change in conf. adm. per 100 beds	
NY	71,913 (370)	7.4%	5,364 (11)	+1%	+0.7%	-5%	
OR	8,745 (207)	7.3%	486 (7)	-5%	-1.2%	17%	
RI	6,160 (581)	7.2%	244 (10)	-25%	-1.4%	-20%	
MA	31,704 (460)	6.5%	1,572 (10)	-4%	+0.4%	1%	
AK	2,403 (328)	4.7%	80 (6)	-39%	-3.0%	-25%	

Dark Green States

State	Last 7 days			Change from previous week			Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Confirmed admissions (per 100 beds)	Pct. change in cases	Abs. change in test positivity	Pct. change in conf. adm. per 100 beds	

Light Green States

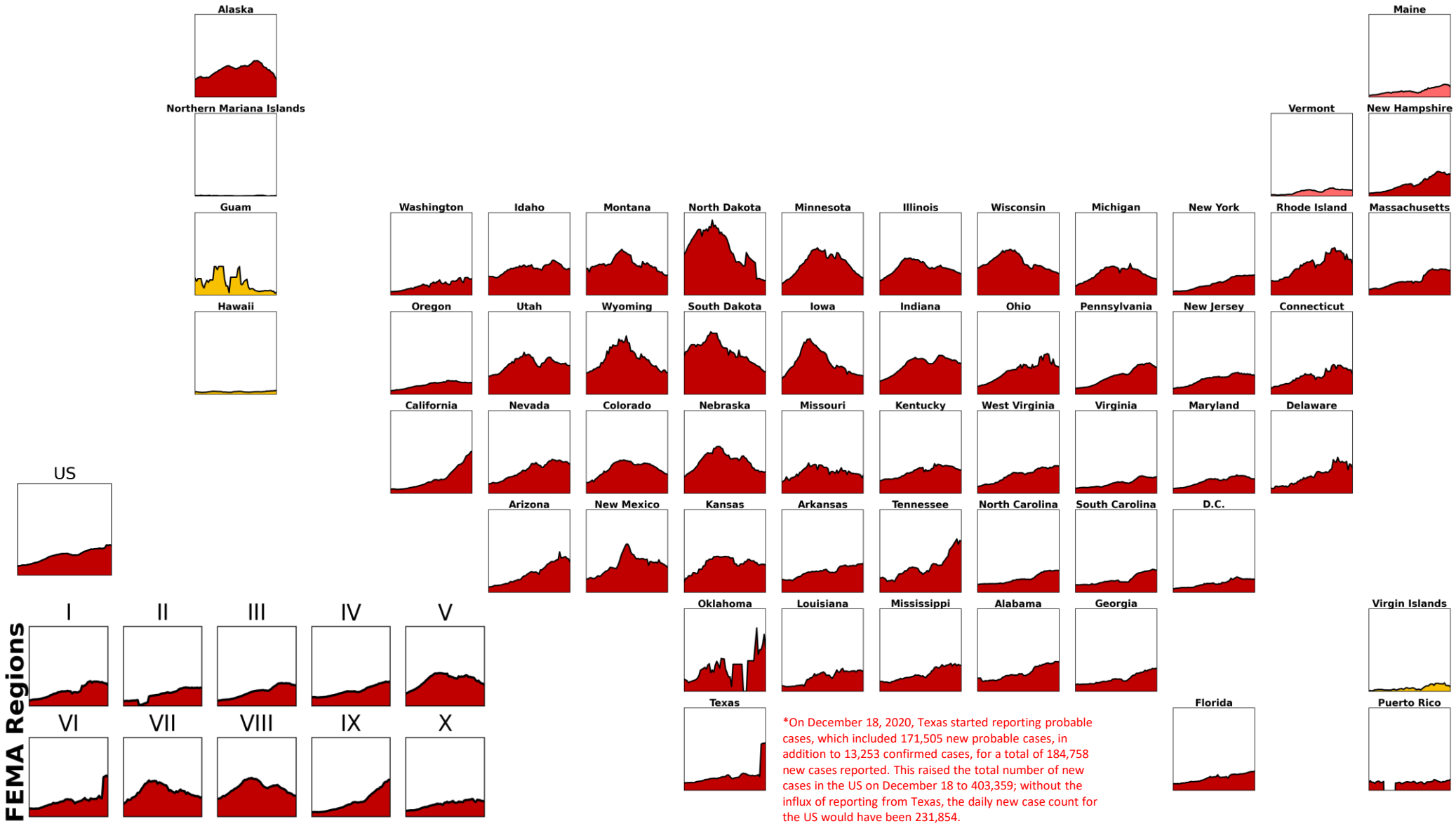
State	Last 7 days			Change from previous week			Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Confirmed admissions (per 100 beds)	Pct. change in cases	Abs. change in test positivity	Pct. change in conf. adm. per 100 beds	
DC	1,702 (241)	4.2%	203 (7)	-1%	-0.3%	1%	
ND	2,060 (270)	4.2%	168 (8)	-55%	-0.7%	-22%	
ME	2,541 (189)	4.2%	110 (4)	-6%	-0.5%	-22%	
HI	900 (64)	3.1%	44 (2)	+15%	+0.5%	-12%	
VT	677 (108)	2.9%	47 (4)	-13%	-0.2%	131%	

Territories

State	Last 7 days			Change from previous week			Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Confirmed admissions (per 100 beds)	Pct. change in cases	Abs. change in test positivity	Pct. change in conf. adm. per 100 beds	
GU	89 (56)	13.1%	10 (4)	-32%	-10.3%	-41%	
PR	6,493 (203)	11.6%	231 (3)	+27%	+1.1%	-4%	
VI	93 (87)	N/A	2 (1)	-37%	N/A	0%	
MP	3 (6)	N/A	0 (0)	+50%	N/A	N/A	
AS	0 (0)	N/A	N/A	N/A	N/A	N/A	

The Weekly Categories slide indicates which states fell in the red, orange, yellow, light green, and dark green categories for test positivity at the beginning of the week (as of Sunday data). The indicators shown here are fixed throughout the week and provide a common reference point for states from week to week.

TRENDS IN CASE INCIDENCE DURING THE LAST 8 WEEKS



*On December 18, 2020, Texas started reporting probable cases, which included 171,505 new probable cases, in addition to 13,253 confirmed cases, for a total of 184,758 new cases reported. This raised the total number of new cases in the US on December 18 to 403,359; without the influx of reporting from Texas, the daily new case count for the US would have been 231,854.

Case incidence categories

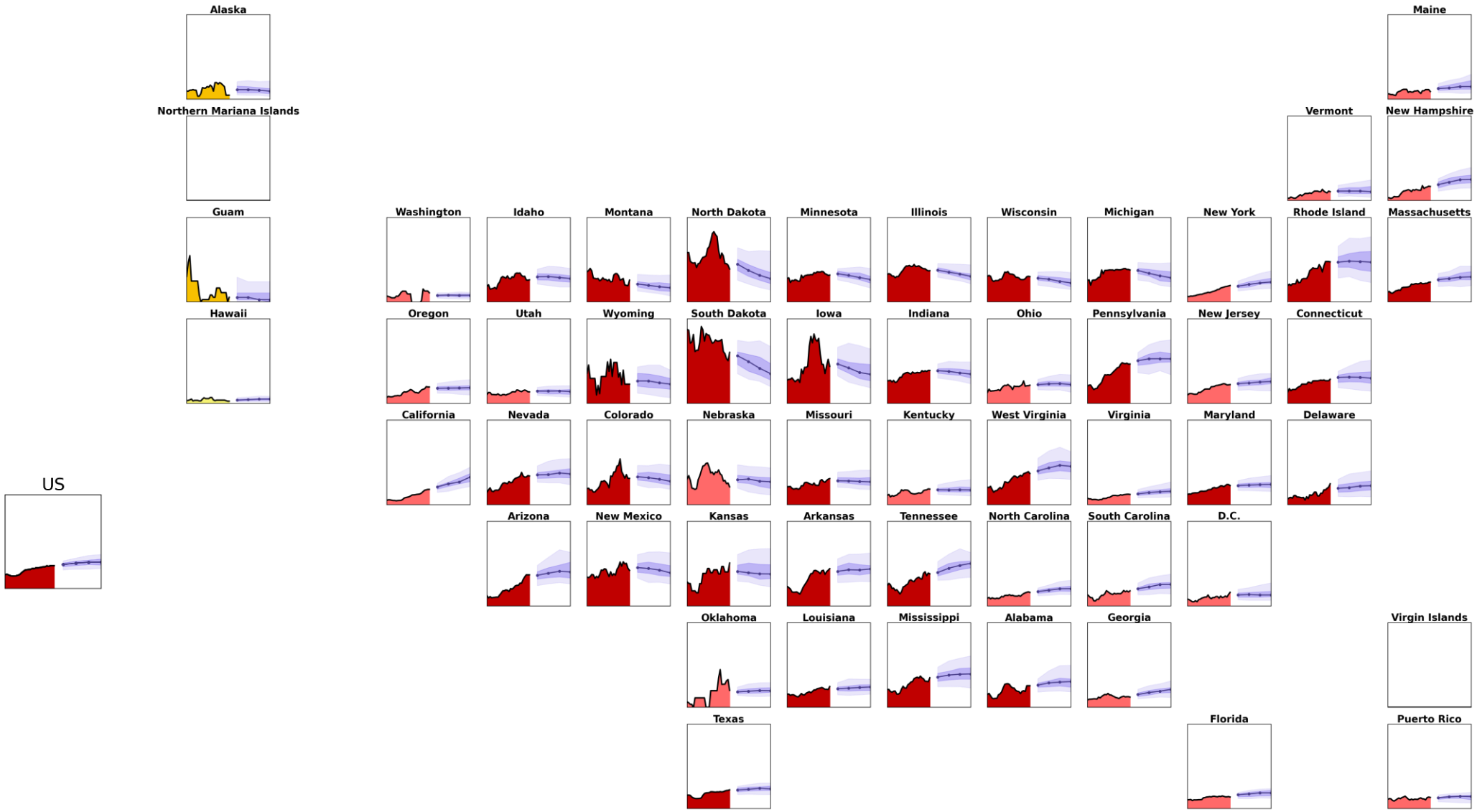
(based on cases per 100,000 population in the last 7 days)

- 2 or less
- 3 – 9
- 10 – 50
- 51 – 100
- 101 – 199
- 200 or more

Figure depicts average case incidence for each state and region over the 8-week period of 10/27-12/21. Vertical axis ranges from 0 to 1,527 cases per 100,000 population (7 day total).

Source: CDC state-reported data. See Data Sources/Methods slides for additional details.

TRENDS IN MORTALITY RATE DURING THE LAST 4 WEEKS AND 4 WEEK FORECAST



Mortality rate categories

(based on deaths per 100,000 population in the last 7 days)

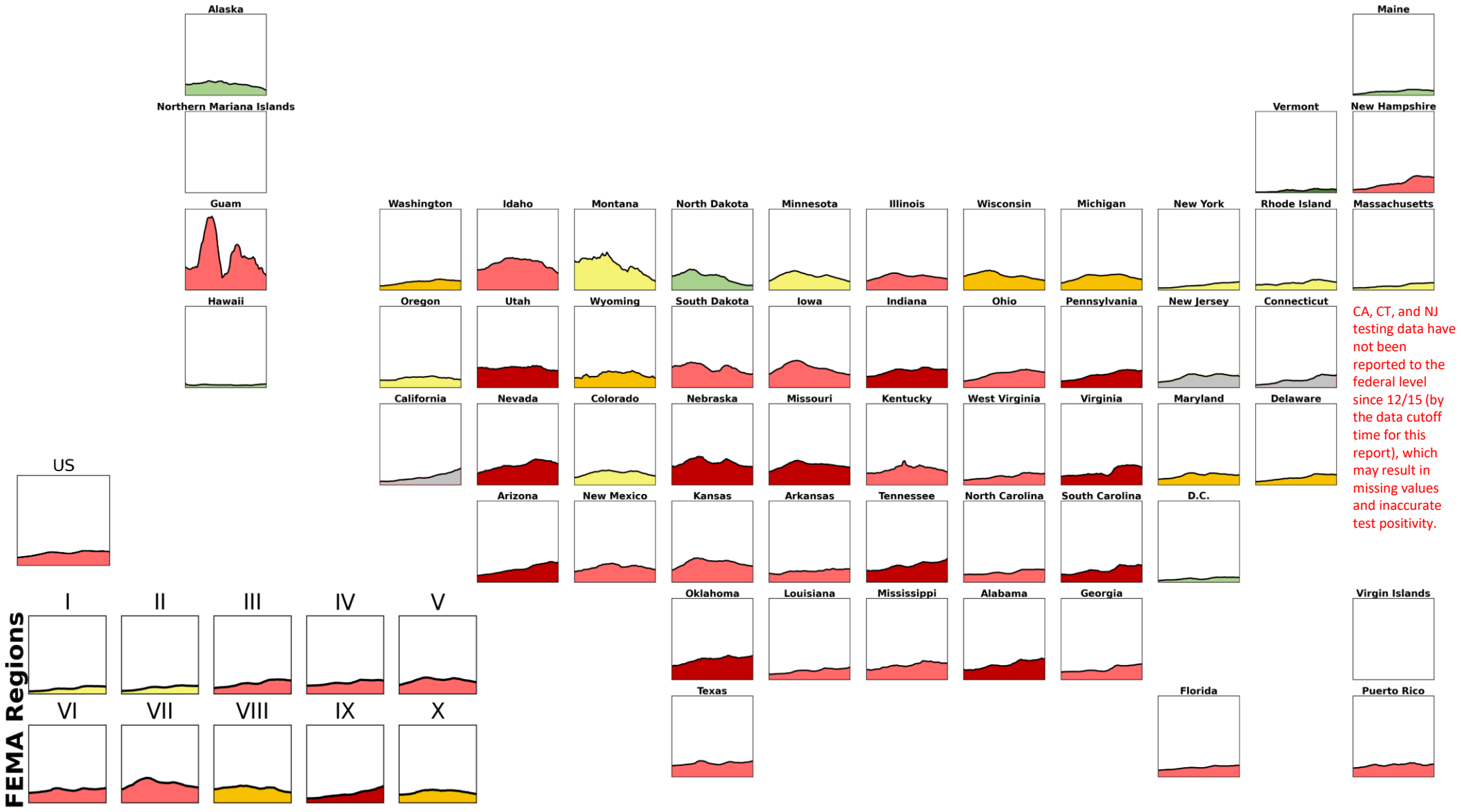
- 0.0
- 0.1 – 1.0
- 1.1 – 2.0
- 2.1 – 5.0
- 5.1 or more
- Projected Deaths
- 50% Prediction Interval
- 95% Prediction Interval

Figure depicts average mortality rate for each state over the 4-week period of 11/24-12/21 and a 4-week forecast from 12/26-1/16. Vertical axis ranges from 0 to 23 deaths per 100,000 population (7 day total).

Source: CDC state-reported data. See Data Sources/Methods slides for additional details.

Forecast: The forecast displays projected weekly death totals using an ensemble of predictive models generated by academic, private industry, and governmental groups. Models make various assumptions about the levels of social distancing and other interventions, which may not reflect recent changes in behavior. More information is available at the COVID-19 Forecast Hub. The forecast date is as of 12/21.

TRENDS IN VIRAL (RT-PCR) LAB TEST POSITIVITY DURING THE LAST 8 WEEKS



Viral (RT-PCR) lab test positivity categories

(based on proportion of positive tests over the last 7 days)

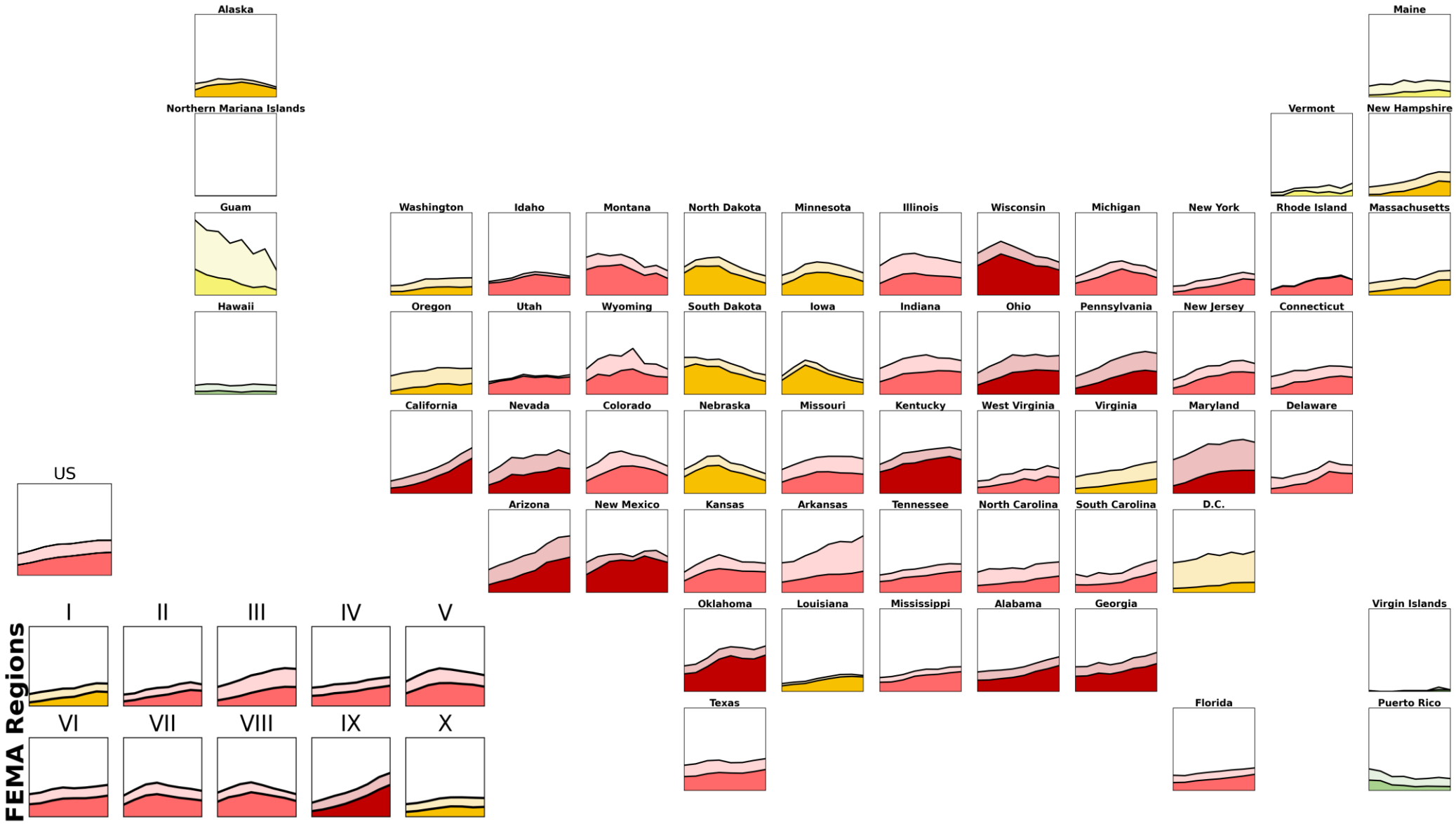
- 2.9% or less
- 3.0% – 4.9%
- 5.0% – 7.9%
- 8.0% – 10.0%
- 10.1% – 15.0%
- 15.1% or more

CA, CT, and NJ testing data have not been reported to the federal level since 12/15 (by the data cutoff time for this report), which may result in missing values and inaccurate test positivity.

Figure depicts 7 day average test positivity for each state and region over the 8-week period of 10/25-12/19. Vertical axis ranges from 0 to 72.8%. Most recent dates may be less reliable due to delayed reporting. States in gray have limited or no reporting in most recent week.

Source: Unified Testing Dataset. See Data Sources/Methods slides for additional details.

TRENDS IN HOSPITAL ADMISSIONS PER 100 BEDS DURING THE LAST 8 WEEKS



Confirmed admission rate categories

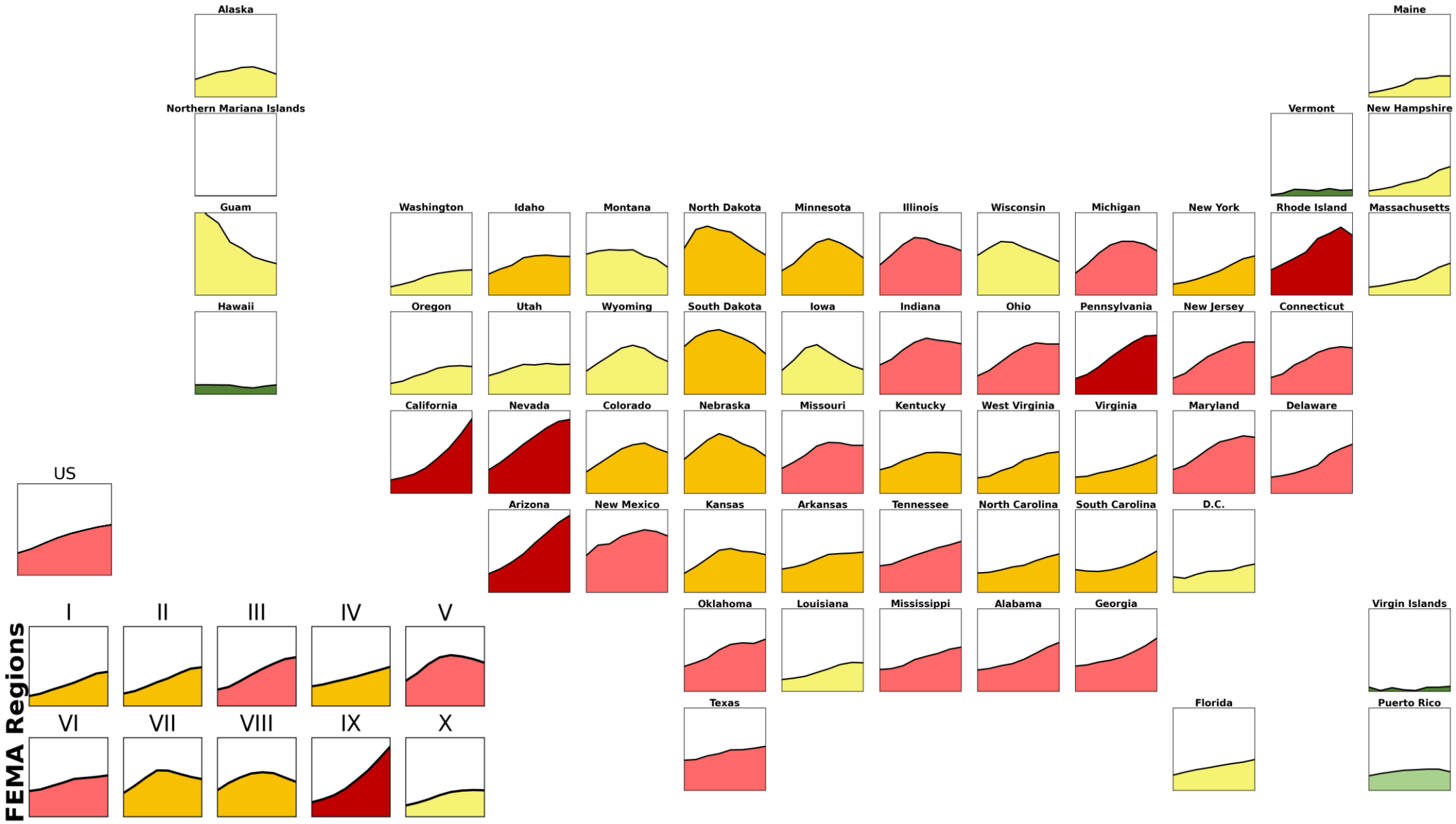
(based on confirmed COVID-19 admissions per 100 beds over the last 7 days)

- 1 or less
- 2 – 3
- 4 – 5
- 6 – 10
- 11 – 15
- 16 or more

Figure depicts total confirmed (darker color) and suspected (lighter color) hospital admissions per 100 inpatient beds for each state and region over the 8-week period of 10/27-12/21. Vertical axis ranges from 0 to 57 admissions per 100 beds in a 7-day period).

Source: Unified Hospital Dataset. See Data Sources/Methods slides for additional details.

TRENDS IN HOSPITAL INPATIENT COVID UTILIZATION DURING THE LAST 8 WEEKS



Inpatient bed utilization categories

(based on average percentage of beds occupied by COVID-19 patients over the last 7 days)

- 3% or less
- 4% - 7%
- 8% - 12%
- 13% - 15%
- 16% - 20%
- 21% or more

Figure depicts average inpatient bed utilization by COVID-19 patients over the 8-week period of 10/27-12/21. Vertical axis ranges from 0 to 30%.

Source: Unified Hospital Dataset. See Data Sources/Methods slides for additional details.

NATIONAL TRENDS - VIRAL (RT-PCR) LAB TEST POSITIVITY BY AGE GROUP

Tests per 100k population aged 18-24 in the last 7 days: 2,832 (-33% from previous 7 days)

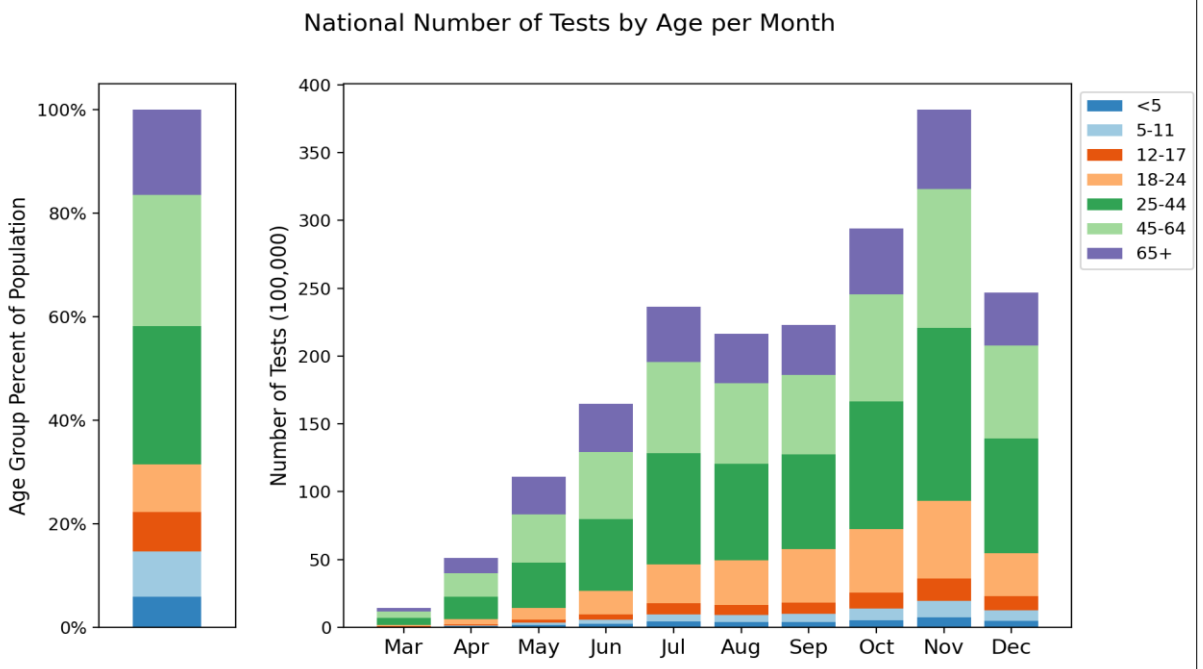
Tests per 100k population aged 25-64 in the last 7 days: 2,465 (-33% from previous 7 days)

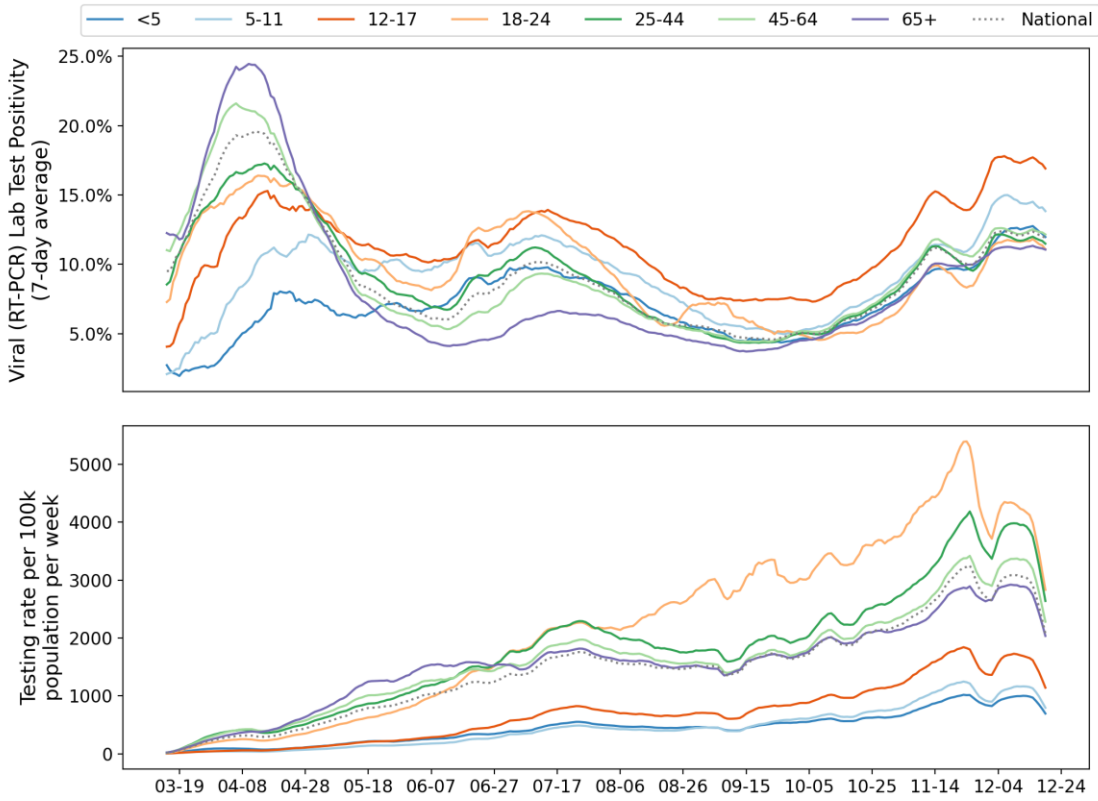
Tests per 100k population aged 65+ in the last 7 days: 2,036 (-30% from previous 7 days)

Viral (RT-PCR) lab test positivity for ages 18-24 in the last 7 days: 11.1% (-0.6% from previous 7 days)

Viral (RT-PCR) lab test positivity for ages 25-64 in the last 7 days: 11.8% (-0.2% from previous 7 days)

Viral (RT-PCR) lab test positivity for ages 65+ in the last 7 days: 11.1% (-0.1% from previous 7 days)





Source: Source: COVID-19 Electronic Lab Reporting (CELR) and Federal Direct Report Testing Data, limited to records with known age over the period 3/15-12/19.

TRENDS IN VIRAL (RT-PCR) LAB TEST POSITIVITY BY AGE GROUP AND REGION

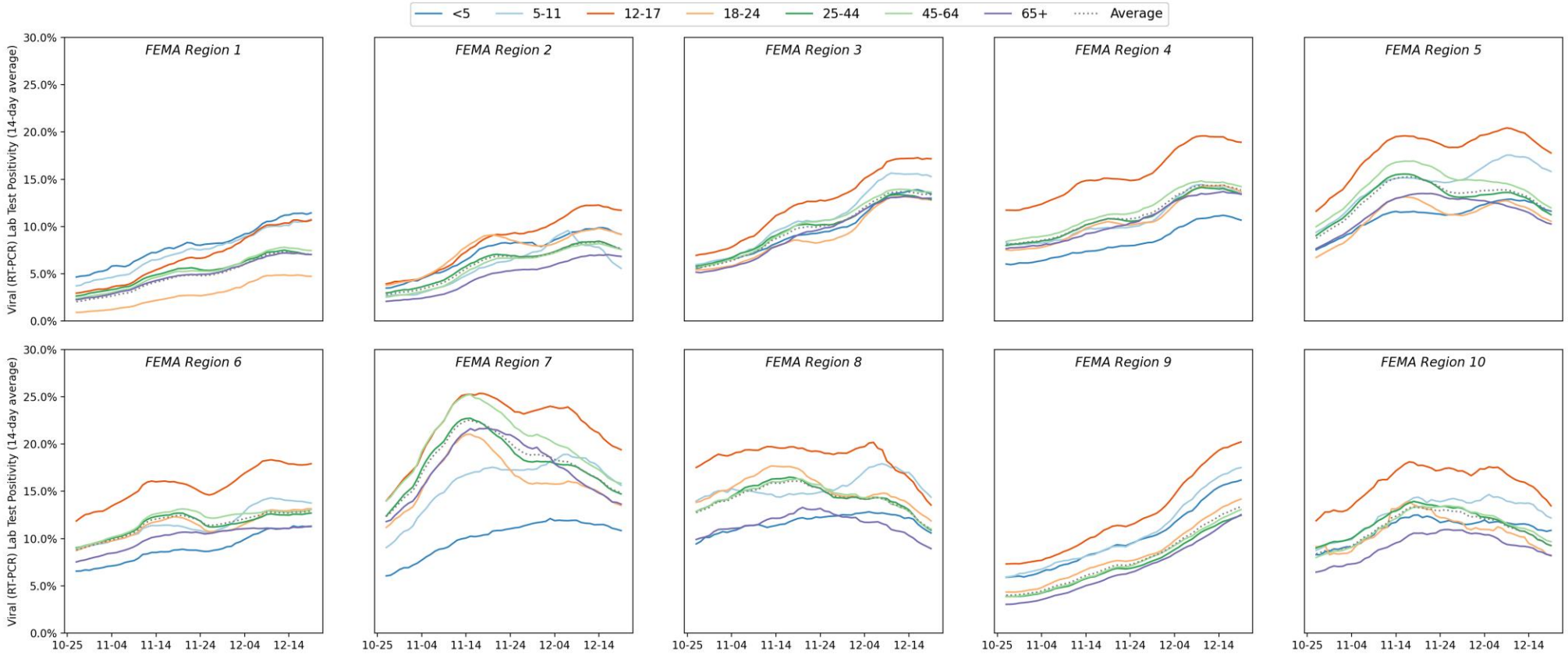


Figure depicts the 14-day average percent test positivity for each region and age group over the 8-week period of 10/27-12/19. Average includes records with known age only.

Source: COVID-19 Electronic Lab Reporting (CELR) and Federal Direct Report Testing Data, limited to records with known age over the period 10/27-12/19.

SELECT HIGH BURDEN CORE-BASED STATISTICAL AREAS (CBSAS)

WY and OH county-level test information is provided directly to the federal government and is missing a significant proportion of known state tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states. ME, MO, OK, PR, and WA test information at the county and state levels is provided directly to the federal government and may underestimate the total number of tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states.

CA, CT, and NJ testing data have not been reported to the federal level since 12/15 (by the data cutoff time for this report), which may result in missing values and inaccurate test positivity.

Population over 1 million

CBSA (population)	Last 7 days		Change from previous week		Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Percent change in cases	Absolute change in test pos.	
Riverside, CA (4,650,631)	66,885 (1,438)		+69%		
Los Angeles, CA (13,214,799)	126,476 (957)		+38%		
Nashville, TN (1,934,317)	16,689 (863)	21.6%	+16%	+3.4%	
Phoenix, AZ (4,948,203)	25,911 (524)	15.8%	-27%	-0.5%	
Dallas, TX (7,573,136)	37,822 (499)	15.7%	+8%	+0.8%	
Las Vegas, NV (2,266,715)	12,541 (553)	18.5%	-7%	-2.8%	
Indianapolis, IN (2,074,537)	12,544 (605)	15.4%	-10%	-0.3%	
Pittsburgh, PA (2,317,600)	13,968 (603)	14.8%	-6%	-0.6%	
San Diego, CA (3,338,330)	20,139 (603)		+31%		
Tucson, AZ (1,047,279)	6,912 (660)	24.7%	-9%	+0.4%	

Population 250k – 1 million

CBSA (population)	Last 7 days		Change from previous week		Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Percent change in cases	Absolute change in test pos.	
Knoxville, TN (869,046)	7,888 (908)	22.1%	+20%	+0.4%	
Bakersfield, CA (900,202)	7,536 (837)		+15%		
Tulsa, OK (998,626)	6,562 (657)	25.0%	+40%	+2.4%	
Chattanooga, TN (565,194)	4,682 (828)	20.3%	+33%	+3.2%	
Visalia, CA (466,195)	3,868 (830)		+41%		
Fresno, CA (999,101)	13,502 (1,351)		+316%		
Greenville, SC (920,477)	4,858 (528)	24.3%	-4%	+3.8%	
Provo, UT (648,252)	3,752 (579)	18.5%	-11%	+0.8%	
Dayton, OH (807,611)	4,336 (537)	19.1%	-21%	-0.5%	
Stockton, CA (762,148)	6,042 (793)		+39%		

Population 50k – 250k

CBSA (population)	Last 7 days		Change from previous week		Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Percent change in cases	Absolute change in test pos.	
Johnson City, TN (203,649)	1,754 (861)	32.6%	+6%	+11.4%	
Sevierville, TN (98,250)	1,399 (1,424)	26.7%	+38%	+3.0%	
Yuma, AZ (213,787)	1,758 (822)	29.8%	-49%	+4.3%	
Cookeville, TN (114,272)	1,176 (1,029)	30.6%	+27%	+12.6%	
Yuba City, CA (175,639)	1,547 (881)		+25%		
Cleveland, TN (124,942)	1,252 (1,002)	25.5%	-0%	+2.8%	
Tullahoma, TN (105,216)	1,224 (1,163)	24.7%	+27%	+6.1%	
Jackson, TN (178,644)	1,547 (866)	23.9%	+10%	+8.4%	
Coeur d'Alene, ID (165,697)	1,243 (750)	29.3%	-14%	-10.1%	
Morristown, TN (142,749)	1,413 (990)	22.0%	+20%	+1.8%	

Within each population bin, CBSAs are ordered by the sum of 3 individual attribute rankings: 7-day case count, 7-day cases per 100,000 population, and 7-day average viral (RT-PCR) lab test positivity. The CBSAs with the ten smallest sums are shown.

Last 7 days indicates cases/deaths/admissions data from 12/15-12/21 and testing data from 12/13-12/19.

SELECT CORE-BASED STATISTICAL AREAS (CBSAS) WITH INCREASING BURDEN

WY and OH county-level test information is provided directly to the federal government and is missing a significant proportion of known state tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states. ME, MO, OK, PR, and WA test information at the county and state levels is provided directly to the federal government and may underestimate the total number of tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states.

CA, CT, and NJ testing data have not been reported to the federal level since 12/15 (by the data cutoff time for this report), which may result in missing values and inaccurate test positivity.

Population over 1 million

CBSA (population)	Last 7 days		Change from previous week		Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Percent change in cases	Absolute change in test pos.	
Riverside, CA (4,650,631)	66,885 (1,438)		+69%		
San Antonio, TX (2,550,960)	11,094 (435)	17.8%	+42%	+4.3%	
San Diego, CA (3,338,330)	20,139 (603)		+31%		
Los Angeles, CA (13,214,799)	126,476 (957)		+38%		
Nashville, TN (1,934,317)	16,689 (863)	21.6%	+16%	+3.4%	
Sacramento, CA (2,363,730)	11,555 (489)		+19%		
Jacksonville, FL (1,559,514)	6,692 (429)	10.2%	+35%	+1.3%	
Memphis, TN (1,346,045)	7,643 (568)	14.3%	+10%	+1.7%	
Houston, TX (7,066,141)	20,849 (295)	12.4%	+23%	+0.6%	
San Francisco, CA (4,731,803)	15,569 (329)		+15%		

Population 250k – 1 million

CBSA (population)	Last 7 days		Change from previous week		Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Percent change in cases	Absolute change in test pos.	
Fresno, CA (999,101)	13,502 (1,351)		+316%		
Salinas, CA (434,061)	4,669 (1,076)		+214%		
Oxnard, CA (846,006)	4,819 (570)		+36%		
Stockton, CA (762,148)	6,042 (793)		+39%		
Merced, CA (277,680)	2,277 (820)		+46%		
Santa Maria, CA (446,499)	1,686 (378)		+69%		
San Luis Obispo, CA (283,111)	1,256 (444)		+39%		
Chattanooga, TN (565,194)	4,682 (828)	20.3%	+33%	+3.2%	
Vallejo, CA (447,643)	2,490 (556)		+25%		
Tulsa, OK (998,626)	6,562 (657)	25.0%	+40%	+2.4%	

Population 50k – 250k

CBSA (population)	Last 7 days		Change from previous week		Daily case trend – last 8 weeks
	Cases (per 100k)	Viral (RT-PCR) lab test positivity	Percent change in cases	Absolute change in test pos.	
Bartlesville, OK (51,527)	397 (770)	26.7%	+115%	+9.3%	
Sonora, CA (54,478)	792 (1,454)		+53%		
Kerrville, TX (52,600)	369 (702)	16.1%	+69%	+5.9%	
Jasper, IN (55,125)	701 (1,272)	32.9%	+45%	+12.6%	
Eagle Pass, TX (58,722)	406 (691)	19.4%	+55%	+7.8%	
Granbury, TX (61,643)	435 (706)	23.4%	+53%	+6.7%	
Palestine, TX (57,735)	201 (348)	17.5%	+66%	+4.6%	
Greeneville, TN (69,069)	797 (1,154)	26.5%	+33%	+8.9%	
Danville, IL (75,758)	712 (940)	16.3%	+41%	+5.2%	
Cookeville, TN (114,272)	1,176 (1,029)	30.6%	+27%	+12.6%	

Within each population bin, CBSAs with at least 200 total cases and at least 30 cases per 100K in the past 7 days are ordered by the sum of 2 individual attribute rankings: 7-day percent change in cases and 7-day absolute change in viral (RT-PCR) lab test positivity. The CBSAs with the ten smallest sums are shown.

Last 7 days indicates cases/deaths/admissions data from 12/15-12/21 and testing data from 12/13-12/19.

DATA SOURCES AND METHODS

DATA NOTES

- Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in changes from day to day.
- **Demographics/Population:** Population and demographic data is from 2019 Census estimates.
- **Cases and Deaths:** COVID-19 case and death metrics at the state and county level are generated using a dataset managed by the CDC which is compiled from state and local health departments. Most states and localities report both confirmed and suspected cases and deaths, although some report just confirmed cases and deaths. To ensure data quality, daily data alerts are monitored for deviations in the data (e.g., decreases in cumulative values, no change in values, abnormal increases in values). These alerts are manually reviewed every day by checking the data against local government websites, state websites, and news sources, and the raw values are corrected as needed to reflect local government reports. Cases are based on date of report and not on date of symptom onset. This may cause artificial spikes in any given day of data. Changes in reporting may also cause temporary spikes or dips (e.g. shifts from reporting confirmed and probable cases to reporting just confirmed cases). Case data are presented as 7-day totals or averages to adjust for these anomalies as well as weekly variations in reporting. CBSA-level data are calculated by aggregating county/municipio-level data. Regional and national values are calculated by aggregating state-level data.
- **Puerto Rico Municipios:** JHU Center for Systems Science and Engineering (CSSE) COVID-19 Data, https://github.com/CSSEGISandData/COVID-19/.
- **Testing:** CELR (COVID-19 Electronic Lab Reporting) state health department-reported data are used to describe state-level totals when able to be disaggregated from serology test results and to describe county-level totals when information is available on patients' county of residence or healthcare providers' practice location. HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and six commercial labs) are used otherwise. Some states did not report on certain days, which may affect the total number of tests resulted and positivity rate values. Total diagnostic tests are the number of tests performed, not the number of individuals tested. Viral (RT-PCR) lab test positivity rate is the number of positive tests divided by the number of tests performed and resulted. Testing data may be backfilled over time, resulting in changes week-to-week in testing data.
- **Hospital Data**: Unified Hospital Dataset, excluding psychiatric, rehabilitation, and religious non-medical hospitals. Total inpatient bed, ICU bed, and ventilator counts are calculated as an average among reports from each hospital in the given timeframe. Utilization metrics calculate the average utilization in the geography for the week. Due to inconsistent reporting and impacts of staffing on the total number of beds at each hospital, variations may occur over time and the number shown may not be a full representation of the true number of resources in the area. Total number of admissions is calculated as a sum of confirmed and suspected admissions reported by all hospitals reporting in the given timeframe. Due to inconsistent reporting and data errors, the number shown may not be a full representation of the true number of admissions in the area.

COLOR THRESHOLDS

- Results for each indicator should be taken in context of the findings for related indicators (e.g., changes in case incidence and testing volume)
- Colors are applied after rounding to the displayed precision

	LAST 7 DAYS							% CHANGE FROM PREVIOUS 7 DAYS		
	Cases – last 7 days	Cases per 100k – last 7 days	Viral (RT-PCR) lab test positivity rate – last 7 days	Total RT-PCR diagnostic tests – last 7 days (may be an underestimate due to delayed reporting)	RT-PCR tests per 100k – last 7 days (may be an underestimate due to delayed reporting)	Deaths – last 7 days	Deaths per 100k – last 7 days	Cases – % change	Viral (RT-PCR) lab test positivity rate – absolute change	Deaths – % change
dark green	*colored by per capita thresholds*	0 – 4	0.0% – 2.9%	*colored by per capita thresholds*	5,000 or more	*colored by per capita thresholds*		-26% or less	-2.1% or less	-26% or less
green		5 – 9	3.0% – 4.9%		3,000 – 4,999		0.0	-25% – -11%	-2.0% – -0.6%	-25% – -11%
yellow		10 – 50	5.0% – 7.9%		2,000 – 2,999		0.1 – 1.0	-10% – 0%	-0.5% – 0.0%	-10% – 0%
orange		51 – 100	8.0% – 10.0%		1,000 – 1,999		1.1 – 2.0	+1% – +10%	+0.1% – +0.5%	+1% – +10%
light red		101 – 199	10.1% – 15.0%		500 – 999		2.1 – 5.0	+11% – +25%	+0.6% – +2.0%	+11% – +25%
dark red		200 or more	15.1% – 100%		0 – 499		5.1 or more	+26% or more	+2.1% or more	+26% or more

DATA SOURCES AND METHODS

Cases and Deaths

- County-level cases and deaths data are inclusive of all updates as of 3PM 12/22/2020.
- PR county-level case data are inclusive of all updates as of 3PM 12/22/2020.

County Test Data Source by State

- **Data provided directly to the federal government**: ME, MO, OH, OK, PR, WA, WY
- **CELR data from states provided in aggregate format**: VI
- **CELR data from states provided in line level format**: AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, GU, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, MI, MN, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WI, WV
- WY and OH county-level test information is provided directly to the federal government and is missing a significant proportion of known state tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states.
- ME, MO, OK, PR, and WA test information at the county and state levels is provided directly to the federal government and may underestimate the total number of tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states.

State Test Data Source by State

- **Data provided directly to the federal government**: ME, MO, OK, PR, WA
- **CELR data from states provided in aggregate format**: OH, VI, WY
- **CELR data from states provided in line level format**: AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, GU, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, MI, MN, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WI, WV
- WY and OH county-level test information is provided directly to the federal government and is missing a significant proportion of known state tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states.
- ME, MO, OK, PR, and WA test information at the county and state levels is provided directly to the federal government and may underestimate the total number of tests. Because of this, the calculated percent test positivity may be unreliable in some counties in these states.

States that have provided no county testing data for the most recent days of reporting:

- VI provided no testing data after 10/18: VI's testing numbers may therefore be a significant underestimate of the true value.
- CA provided no testing data after 12/15: CA's testing numbers may therefore be a significant underestimate of the true value.
- CT provided no testing data after 12/15: CT's testing numbers may therefore be a significant underestimate of the true value.

States that have provided no state testing data for the most recent days of reporting:

- VI provided no testing data after 10/18: VI's testing numbers may therefore be a significant underestimate of the true value.
- CA provided no testing data after 12/15: CA's testing numbers may therefore be a significant underestimate of the true value.
- CT provided no testing data after 12/15: CT's testing numbers may therefore be a significant underestimate of the true value.

DATA SOURCES AND METHODS – AOC CONTINUUM

The **Areas of Concern Continuum** is used to describe communities as they progress through stages of the epidemic.
There are 7 possible AOC classifications based on current and recent history of case and testing data for the location:

Low Burden Community

Purpose: Identify communities with minimal activity.

Definition:

- <10 new cases per 100k population in the last week

Moderate Burden Community

Purpose: Identify communities with moderate disease activity.

Definition:

- Has **NOT** been identified as a Hotspot, Sustained Hotspot, or High Burden—Resolving within the last 2 weeks
  AND
- Does not meet the definition for an Emerging Hotspot, Hotspot, Sustained Hotspot, or High Burden—Resolving
  AND
- Does not meet the definition for being a Low Burden Community

Emerging Hotspot

Purpose: Generate early and reliable signals of communities with emerging increases in disease burden that have a high likelihood for becoming a hotspot in the next 1-7 days.

Method:
Decision tree model that leverages the following features, trained based on prior data:

Cases

- Total cases in the last week
- Total cases per 100k population in the last week
- New cases in the last week minus new cases the previous week
- Ratio of total cases in last 7 days to total cases in last 30 days

Testing

- Number of tests last week
- Difference in percent positive tests in last 7 days from last 21 days

Hotspot

Purpose: Identify communities that have reached a threshold of disease activity considered as being of high burden.

Definition:

- >100 new cases per 100k population OR >500 new cases in the past week
  AND
- Number of days in downward case trajectory* ≤ 7 days
  AND
- >50 cases during past week
  AND
- Conditions must hold for at least 3 of the previous 5 days

Sustained Hotspot

Purpose: Identify communities that have had a high sustained case burden and are at potentially higher risk for experiencing healthcare resource limitations.

Definition:

- Either Hotspot for at least 7 preceding days or already a Sustained Hotspot on previous day
  AND
- >200 new cases per 100k population OR >1,000 new cases in the past two weeks
  AND
- Daily incidence rate >15 new cases per 100k population for 8 or more of the last 14 days OR test positivity >10% over last 14 days
  AND
- >100 cases during the last two weeks
  AND
- Conditions must hold for at least 3 of the previous 5 days

Data Sources: CDC Aggregate County Data; Unified Testing Dataset; US Census 2019

High Burden - Resolving

Purpose: Identify communities that were recently identified as hotspots and are now improving.

Definition:

- Identified as a Hotspot or Sustained Hotspot within the last 2 weeks
  AND
- Not currently a Emerging Hotspot, Hotspot, or Sustained Hotspot
  AND
- >100 new cases per 100k population OR >500 new cases in last week
  AND
- Number of days in downward trajectory* ≥ 7
  AND
- >50 cases during last week OR both ≥ 10 cases in last week and >10% test positivity in last week

Moderate Burden - Resolving

Purpose: Identify communities that have a moderate level of burden, but are demonstrating improvement.

Definition:

- Identified as a Hotspot, Sustained Hotspot, or High Burden—Resolving within the last 2 weeks
  AND
- Does not meet the definition for an Emerging Hotspot, Hotspot, Sustained Hotspot, or High Burden—Resolving
  AND
- Does not meet the definition for being a Low Burden Community

***Number of Days in Downward Case Trajectory**: This field is calculated using a CDC algorithm that first fits a smooth spline curve to daily case counts, and then counts the number of days that curve has been decreasing or at a low level. More specifically, the computation is based on a cubic spline fit of the 7-day rolling average of cases. The number of days decreasing (in downward trajectory) is calculated by summing the number of consecutive days of decline or near-zero incidence. A day is considered part of a downward trajectory if it (i) was previously at elevated incidence (had a two-week incidence greater than 10 cases per 100k population), and (ii) meets one of the following three conditions: (a) had a negative slope, OR (b) was in a low-incidence plateau (two-week incidence ≤ 10 cases per 100k population and a slope ≥ 0 to < 0.1 new cases per 100k population based on a 7-day moving average), OR (c) had less than 5 cases in the past 2 weeks.