



MISSOURI

STATE REPORT

11.15.2020

Issue 22

SUMMARY

- Missouri is in the red zone for cases, indicating 101 or more new cases per 100,000 population, with the 17th highest rate in the country. Missouri is in the red zone for test positivity, indicating a rate at or above 10.1%, with the 7th highest rate in the country.
- Missouri has seen an increase in new cases and an increase in test positivity.
- The following three counties had the highest number of new cases over the last 3 weeks: 1. St. Louis County, 2. Jackson County, and 3. St. Charles County. These counties represent 33.8% of new cases in Missouri.
- 98% of all counties in Missouri have moderate or high levels of community transmission (yellow, orange, or red zones), with 97% having high levels of community transmission (red zone).
- During the week of Nov 2 - Nov 8, 45% had at least one new staff COVID-19 case, 27% of nursing homes had at least one new resident COVID-19 case, and 8% had at least one new resident COVID-19 death.
- Missouri had 485 new cases per 100,000 population, compared to a national average of 294 per 100,000.
- Current staff deployed from the federal government as assets to support the state response are: 78 to support operations activities from FEMA and 5 to support operations activities from ASPR.
- The federal government has supported surge testing in Columbia, Cape Girardeau, Branson, and Lee's Summit.
- Between Nov 7 - Nov 13, on average, 296 patients with confirmed COVID-19 and 250 patients with suspected COVID-19 were reported as newly admitted each day to hospitals in Missouri. An average of greater than 95% of hospitals reported either new confirmed or new suspected COVID patients each day during this period.

RECOMMENDATIONS

- Referring to the national profiles in the back of the packet, there is now aggressive, unrelenting, expanding broad community spread across the country, reaching most counties, without evidence of improvement but rather, further deterioration. Current mitigation efforts are inadequate and must be increased to flatten the curve to sustain the health system for both COVID and non-COVID emergencies.
- The spread in Missouri is exponential and unyielding with hospitalizations increasing week over week. Increases from the past two weeks correlate with Halloween and related activities. With Thanksgiving and upcoming holidays, Missourians must understand the COVID-19 situation statewide.
- Serious messaging and action are needed from the state leadership; recommending Missourians wear masks in public settings communicates the current risk level.
- With all counties in the red zone and over 50% of nursing homes with at least one positive staff member, mitigation and messaging needs to be further strengthened as other states have done. Effective practices to decrease transmission in public spaces include limiting restaurant indoor capacity to less than 25% and limiting bar hours until cases and test positivity decrease to the yellow zone.
- As previously noted, proactive testing must be part of the mitigation efforts inclusive of mask wearing, physical distancing, hand hygiene, and immediate isolation, contact tracing, and quarantine. Start testing to identify and isolate asymptomatic silent spreaders-- those who have the virus, feel fine, and are unknowingly spreading it. Incentivize people under 40 years to get tested.
- Conduct active testing in school for teachers and students where cases are increasing. In accordance with CDC guidelines, masks must be worn by students and teachers in K-12 schools. Consider pausing extracurricular school activities, even though athletics are not transmission risks, as the surrounding activities are where transmission is occurring.
- We have updated the new hospital admissions graphs to include breakdown by age group. Within the past week, there has been an over 30% increase in new admissions, with most of these in among people over 40 years but across all age groups. Increases in new admissions and changing proportions of age groups will be important to triangulate with cases and percent positivity to increase proactive mitigation efforts.
- On university campuses, students are letting their guards down with Thanksgiving break less than a week away. Message to students to continue their mitigation actions on and off campus to protect others and themselves. If they are going home, they should follow CDC holiday guidelines for protective behaviors.
- Continuously monitor testing and contact tracing capacity in all counties to ensure rapid turnaround of test results (within 48 hours) and that all cases are immediately isolated and full contact tracing is conducted (within 72 hours of testing).
- Stay vigilant with regard to spread among nursing home staff and residents. Ensure all nursing homes, assisted living, and elderly care sites have full testing capacity and are isolating positive staff and residents.
- Ensure all hospitals, including rural hospitals, have access to antivirals, antibodies, PPE, and ventilators. Work through FEMA to secure supplies when stocks of less than a week's supply is confirmed.
- Specific, detailed guidance on community mitigation measures can be found on the [CDC website](#).

The purpose of this report is to develop a shared understanding of the current status of the pandemic at the national, regional, state and local levels. We recognize that data at the state level may differ from that available at the federal level. Our objective is to use consistent data sources and methods that allow for comparisons to be made across localities. We appreciate your continued support in identifying data discrepancies and improving data completeness and sharing across systems. We look forward to your feedback.



COVID-19



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	STATE, % CHANGE FROM PREVIOUS			
	STATE	WEEK	FEMA/HHS REGION	UNITED STATES
NEW COVID-19 CASES (RATE PER 100,000)	29,767 (485)	+41%	93,313 (660)	965,105 (294)
VIRAL (RT-PCR) LAB TEST POSITIVITY RATE	21.4%	+4.5%*	23.1%	10.1%
TOTAL VIRAL (RT-PCR) LAB TESTS (TESTS PER 100,000)	87,130** (1,420**)	+13%**	301,021** (2,129**)	8,782,353** (2,676**)
COVID-19 DEATHS (RATE PER 100,000)	230 (3.7)	+11%	527 (3.7)	7,608 (2.3)
SNFs WITH ≥1 NEW RESIDENT COVID-19 CASE	27%	+7%*	24%	17%
SNFs WITH ≥1 NEW STAFF COVID-19 CASE	45%	+4%*	51%	36%
SNFs WITH ≥1 NEW RESIDENT COVID-19 DEATH	8%	-2%*	8%	6%

* Indicates absolute change in percentage points.

** Due to delayed reporting, this figure may underestimate total diagnostic tests and week-on-week changes in diagnostic tests.

DATA SOURCES – Additional data details available under METHODS

Note: Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.

Cases and Deaths: State values are calculated by aggregating county-level data from USAFacts; therefore, the values may not match those reported directly by the state. Data is through 11/13/2020; previous week is 10/31 - 11/6.

Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 11/11/2020. Previous week is 10/29 - 11/4.

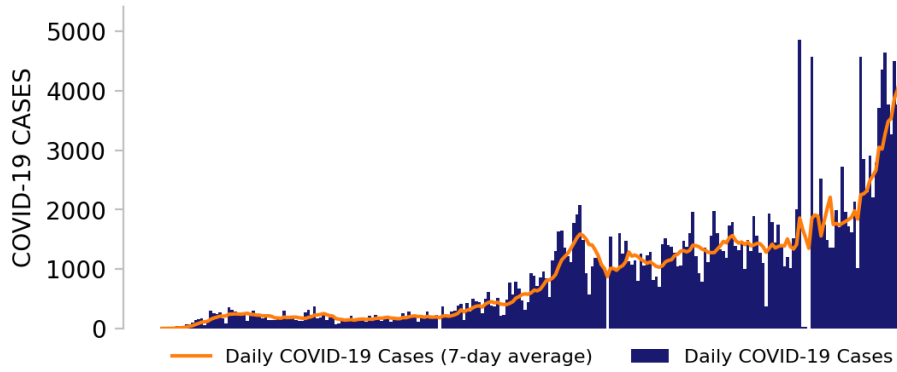
SNFs: Skilled nursing facilities. National Healthcare Safety Network. Data are reported separately for cases among residents and staff. Data is through 11/8/2020, previous week is 10/26-11/1. Facilities that are undergoing reporting quality review are not included in the table, but may be included in other NHSN analyses.



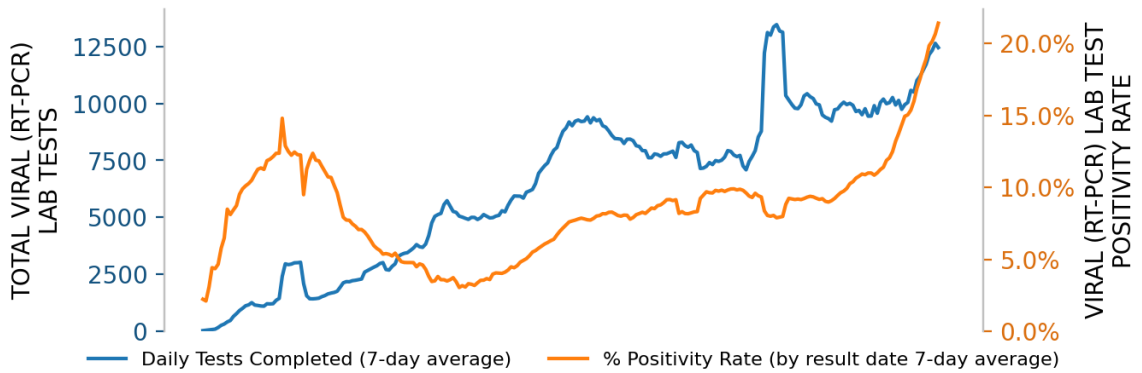
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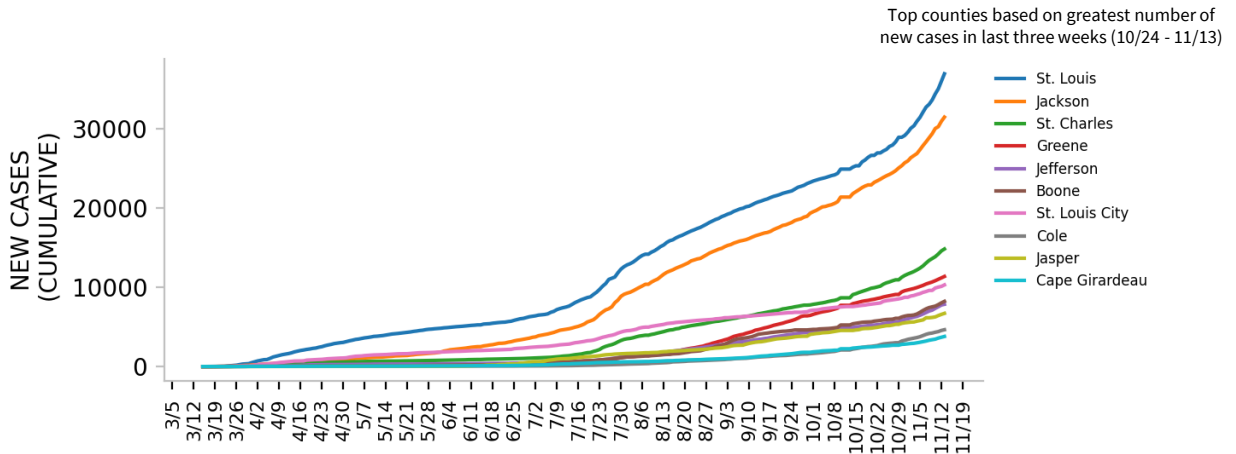
NEW CASES



TESTING



TOP COUNTIES



DATA SOURCES – Additional data details available under METHODS

Note: Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.
Cases: State values are calculated by aggregating county-level data from USAFacts; therefore, the values may not match those reported directly by the state. Data is through 11/13/2020.

Testing: HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs) through 11/11/2020.

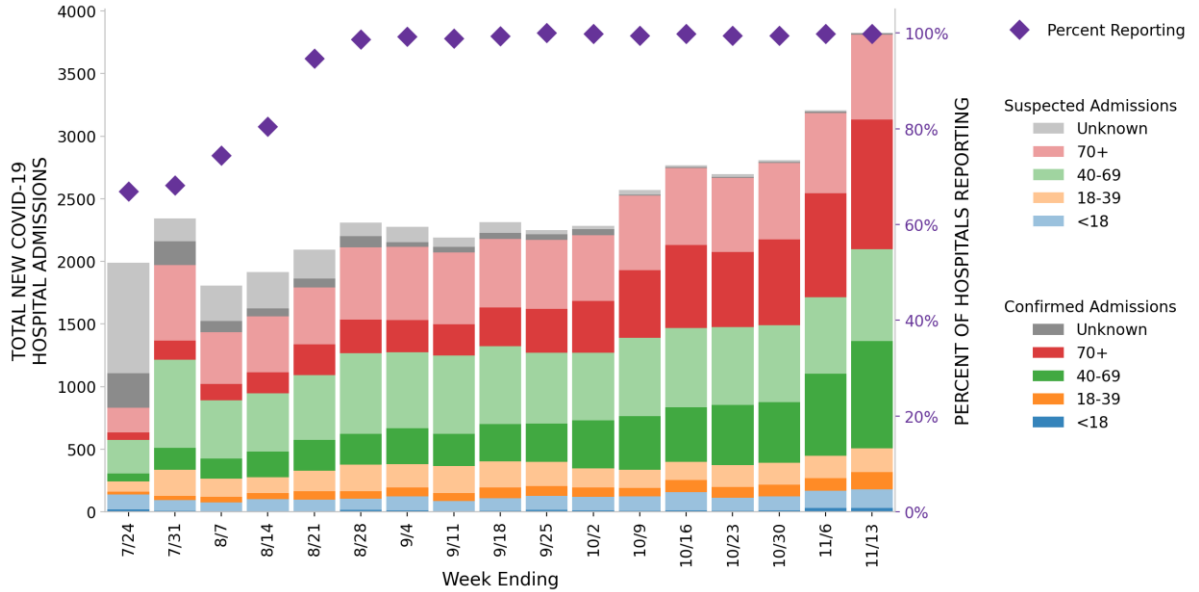


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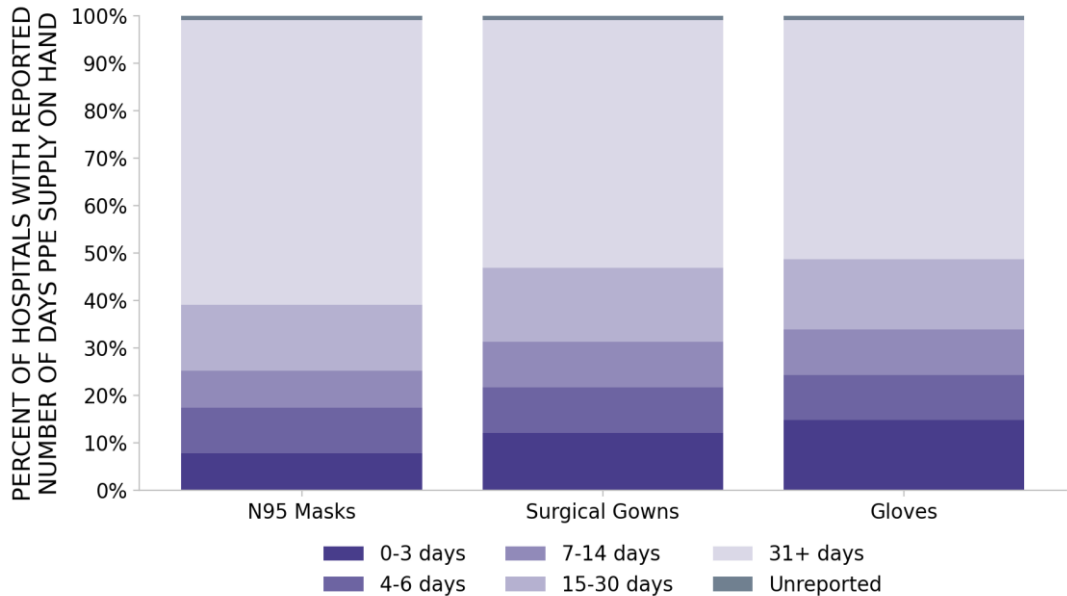
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115 hospitals are expected to report in Missouri

HOSPITAL ADMISSIONS



HOSPITAL PPE SUPPLIES



DATA SOURCES – Additional data details available under METHODS

Hospitalizations: Unified hospitalization dataset in HHS Protect. These data exclude psychiatric, rehabilitation, and religious non-medical hospitals. In addition, hospitals explicitly identified by states/regions as those from which we should not expect reports were excluded from the percent reporting figure.

PPE: Unified hospitalization dataset in HHS Protect. These data exclude psychiatric, rehabilitation, and religious non-medical hospitals. In addition, hospitals explicitly identified by states/regions as those from which we should not expect reports were excluded from the percent reporting figure. Values presented show the latest reports from hospitals in the week ending 11/11/2020.



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COVID-19 COUNTY AND METRO ALERTS*

Top 12 shown in table (full lists below)

METRO AREA (CBSA)

COUNTIES

LOCALITIES IN RED ZONE	26 ■ (+0)	St. Louis Kansas City Springfield Jefferson City Columbia Joplin Cape Girardeau Farmington St. Joseph Sedalia Poplar Bluff Branson	111 ▲ (+12)	St. Louis Jackson St. Charles Greene Jefferson Boone St. Louis City Cole Jasper Cape Girardeau Franklin St. Francois
LOCALITIES IN ORANGE ZONE	1 ■ (+0)	Mexico	1 ▼ (-6)	Audrain
LOCALITIES IN YELLOW ZONE	0 ■ (+0)	N/A	1 ▼ (-3)	Mercer
Change from previous week's alerts:		▲ Increase ■ Stable ▼ Decrease		

All Red CBSAs: St. Louis, Kansas City, Springfield, Jefferson City, Columbia, Joplin, Cape Girardeau, Farmington, St. Joseph, Sedalia, Poplar Bluff, Branson, Sikeston, Warrensburg, Hannibal, Rolla, Kirksville, Maryville, Lebanon, Marshall, Kennett, Fort Leonard Wood, West Plains, Moberly, Quincy, Fort Madison-Keokuk

All Red Counties: St. Louis, Jackson, St. Charles, Greene, Jefferson, Boone, St. Louis City, Cole, Jasper, Cape Girardeau, Franklin, St. Francois, Clay, Callaway, Pettis, Christian, Buchanan, Cass, Lincoln, Taney, Scott, Johnson, Butler, Newton, Camden, Lawrence, Marion, Phelps, Ste. Genevieve, Miller, Washington, Lafayette, Barry, Nodaway, Henry, Moniteau, Laclède, Webster, Saline, Perry, Cooper, Dunklin, Adair, Pulaski, Howell, Randolph, Stoddard, Platte, Crawford, New Madrid, Polk, Osage, Stone, Pike, Warren, Morgan, Texas, Ray, Clinton, Bollinger, Pemiscot, Vernon, Macon, Madison, Sullivan, Benton, Dallas, DeKalb, Andrew, Lewis, Ripley, Mississippi, Monroe, Cedar, Gasconade, Barton, Hickory, Montgomery, Maries, Howard, Bates, Gentry, Carroll, Ralls, Dent, McDonald, Grundy, Clark, Wright, Chariton, Caldwell, Wayne, Livingston, Shannon, Dade, St. Clair, Harrison, Oregon, Linn, Holt, Daviess, Schuyler, Iron, Reynolds, Atchison, Carter, Ozark, Shelby, Scotland, Putnam, Knox

* Localities with fewer than 10 cases last week have been excluded from these alerts.

Note: Lists of red, orange, and yellow localities are sorted by the number of new cases in the last 3 weeks, from highest to lowest. Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.

DATA SOURCES – Additional data details available under METHODS

Cases and Deaths: State values are calculated by aggregating county-level data from USAFacts; therefore, the values may not match those reported directly by the state. Data is through 11/13/2020.

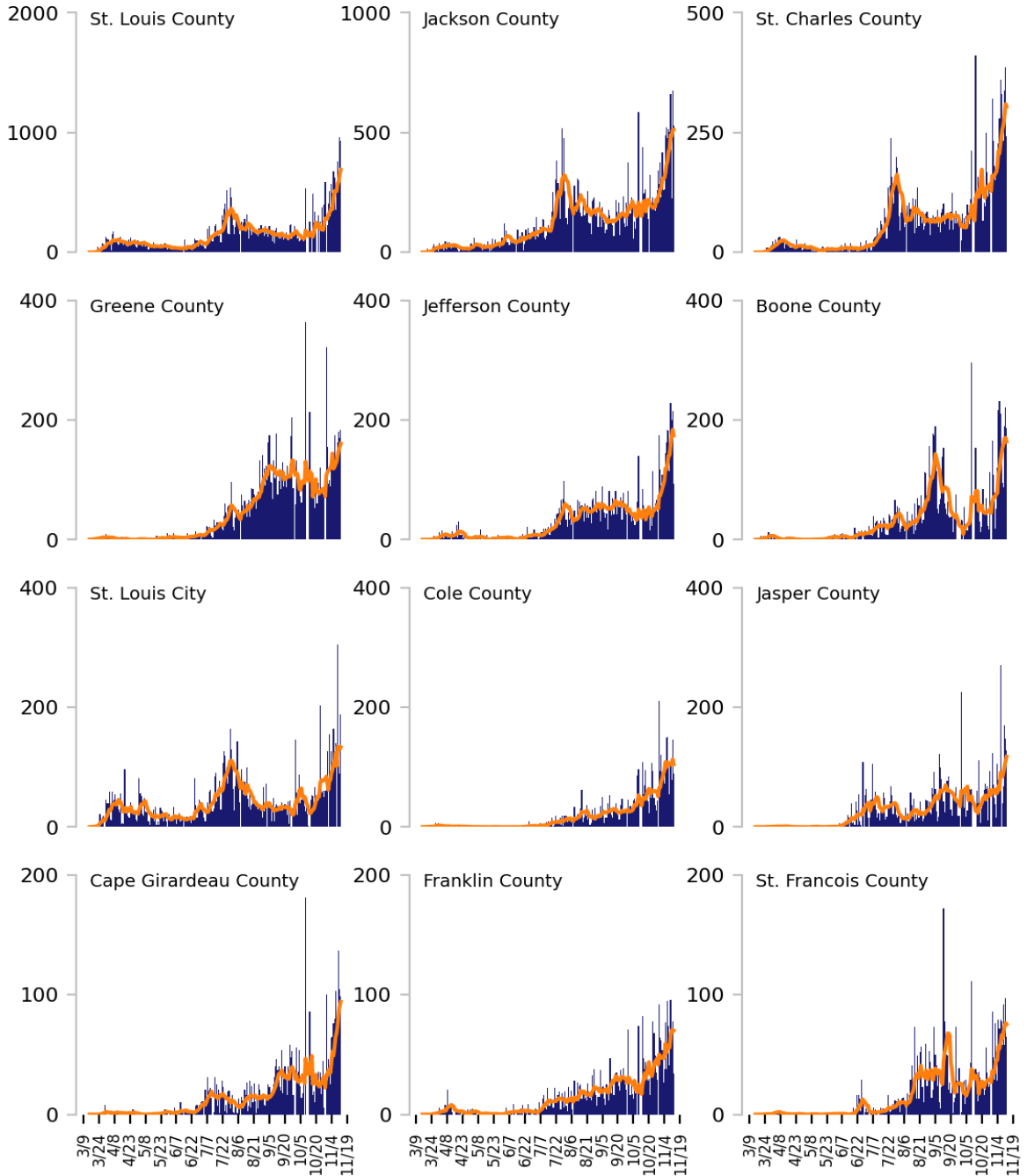
Testing: HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs) through 11/11/2020.



Top 12 counties based on number of new cases in the last 3 weeks

— Daily COVID-19 Cases (7-day average) ■ Daily COVID-19 Cases

TOTAL DAILY CASES



DATA SOURCES – Additional data details available under METHODS

Cases: State values are calculated by aggregating county-level data from USAFacts; therefore, the values may not match those reported directly by the state. Data is through 11/13/2020. Last 3 weeks is 10/24 - 11/13.

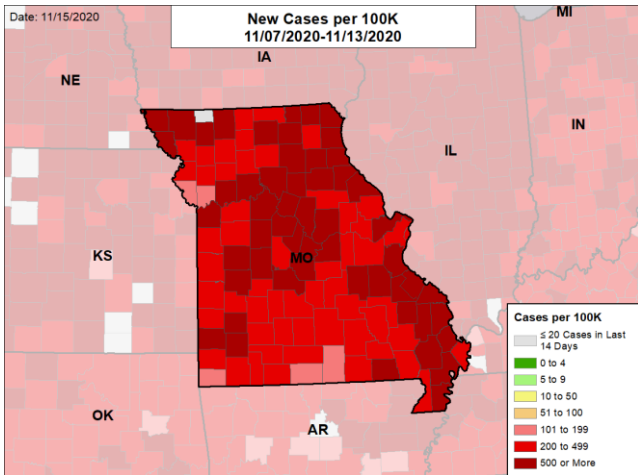


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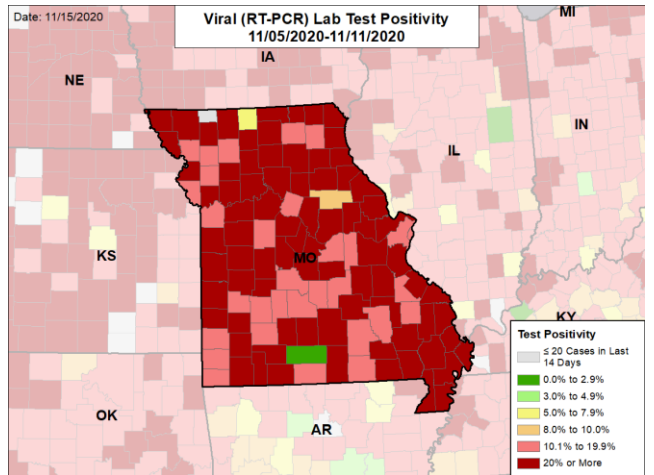
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CASE RATES AND VIRAL LAB TEST POSITIVITY

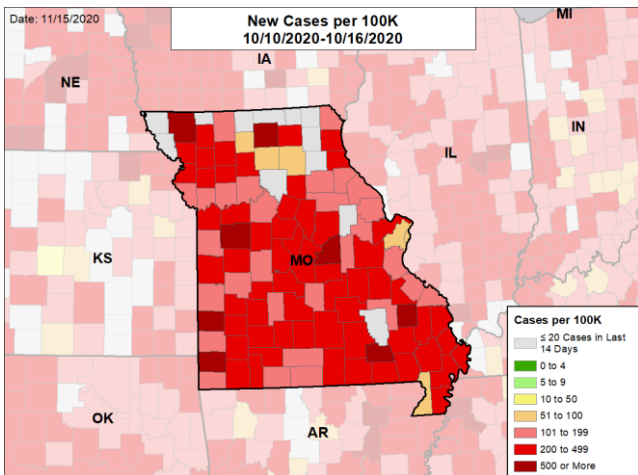
NEW CASES PER 100,000



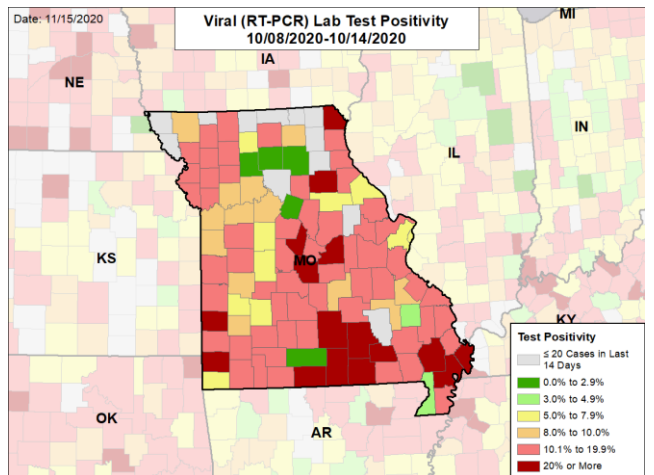
VIRAL (RT-PCR) LABORATORY TEST POSITIVITY



NEW CASES PER 100,000 ONE MONTH BEFORE



VIRAL (RT-PCR) LABORATORY TEST POSITIVITY ONE MONTH BEFORE



DATA SOURCES – Additional data details available under METHODS

Note: Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.

Cases: State values are calculated by aggregating county-level data from USAFacts; therefore, the values may not match those reported directly by the state. Data is through 11/13/2020. The week one month before is 10/10 - 10/16.

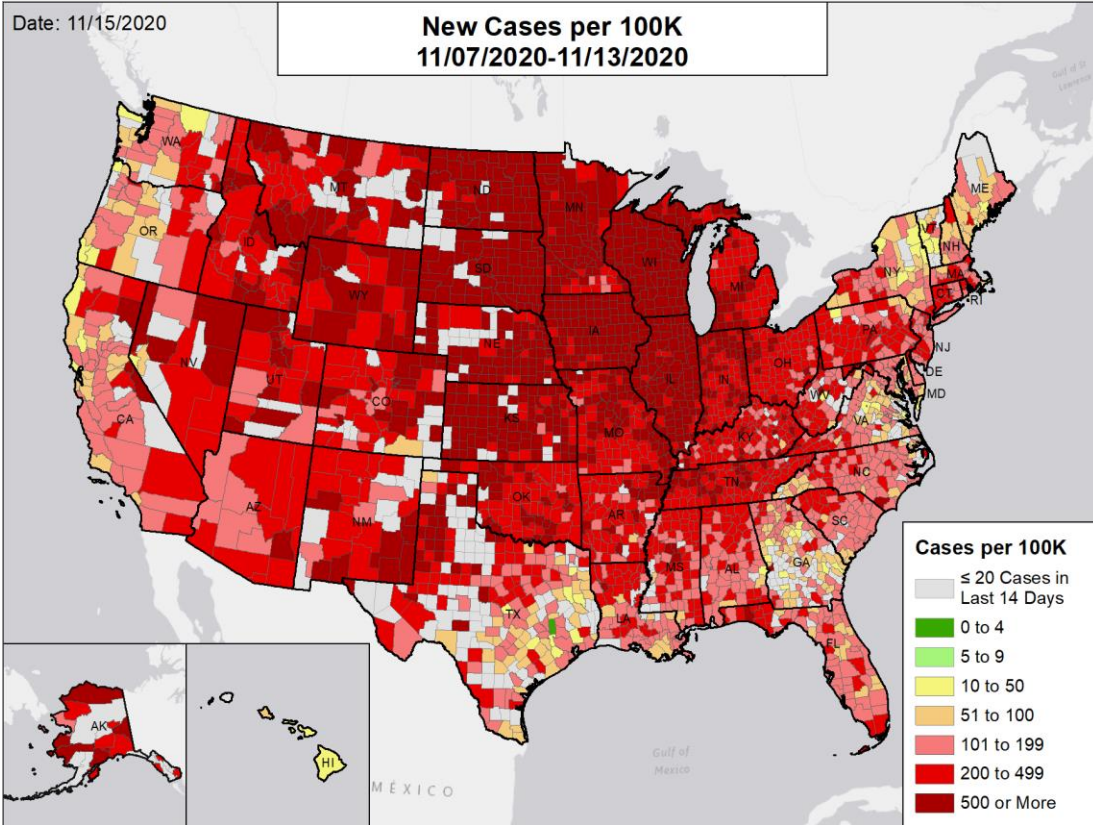
Testing: HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs) through 11/11/2020. The week one month before is 10/8 - 10/14.



National Picture

NEW CASES PER 100,000

NATIONAL RANKING OF NEW CASES PER 100,000



National Rank	State
1	ND
2	SD
3	IA
4	WY
5	WI
6	NE
7	IL
8	MN
9	KS
10	MT
11	UT
12	IN
13	CO
14	AK
15	ID
16	RI
17	MO
18	MI
19	NM
20	TN
21	OK
22	AR
23	OH
24	KY
25	NV
26	CT
27	WV
28	MS
29	PA
30	NJ
31	MA
32	AL
33	TX
34	AZ
35	DE
36	SC
37	FL
38	LA
39	MD
40	NC
41	WA
42	OR
43	NY
44	NH
45	CA
46	DC
47	VA
48	GA
49	ME
50	VT
51	HI

Europe is experiencing a fall surge similar to the USA and is showing early signs of improvement through country-specific mitigation efforts.

- 80% (48/60 countries) require wearing masks in all public settings
 - Most countries have imposed fines for non-compliance
- 93% (56/60) have significant restrictions on gathering size
- 63% (38/60) have some form of nonessential business closures, initially focused on bars and reducing restaurant capacity
- 60% (37/60) have some form of entertainment or public space restriction
- 65% (39/60) have deployed a contact tracing app

DATA SOURCES

Note: Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.

Cases: County-level data from USAFacts through 11/13/2020.

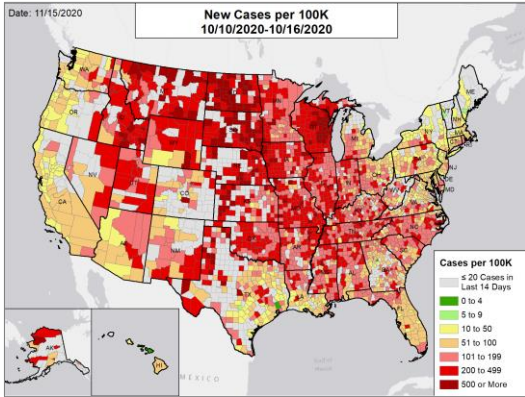
European community mitigation information sourced from European CDC — Situation Update Worldwide.



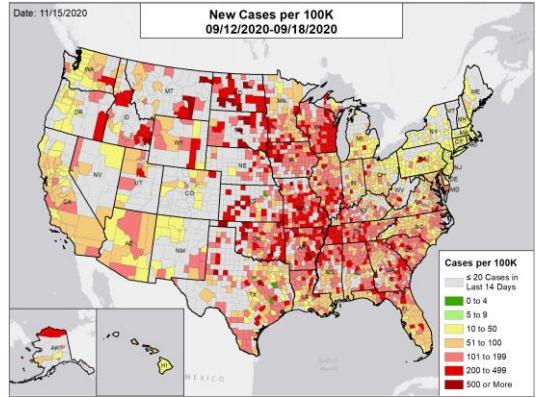
National Picture

NEW CASES PER 100,000 IN THE WEEK:

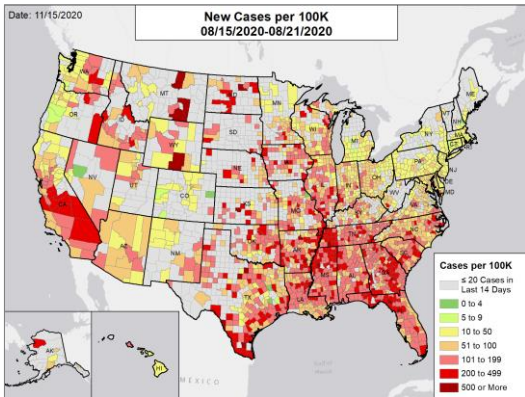
ONE MONTH BEFORE



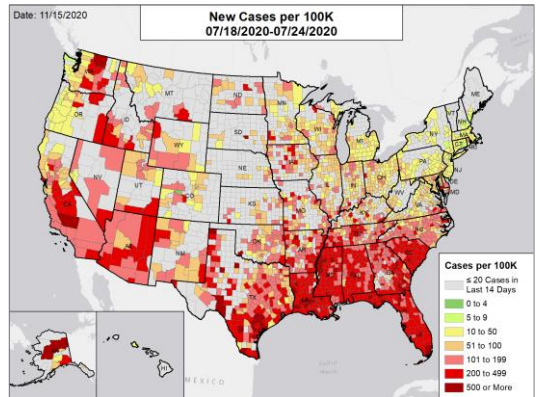
TWO MONTHS BEFORE



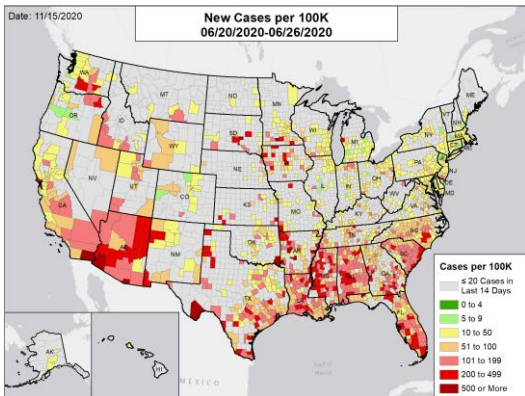
THREE MONTHS BEFORE



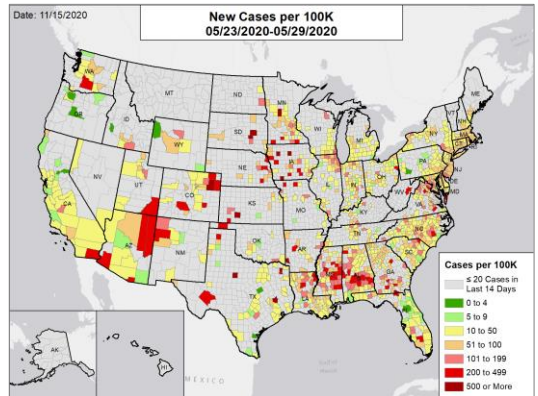
FOUR MONTHS BEFORE



FIVE MONTHS BEFORE



SIX MONTHS BEFORE



DATA SOURCES

Note: Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.

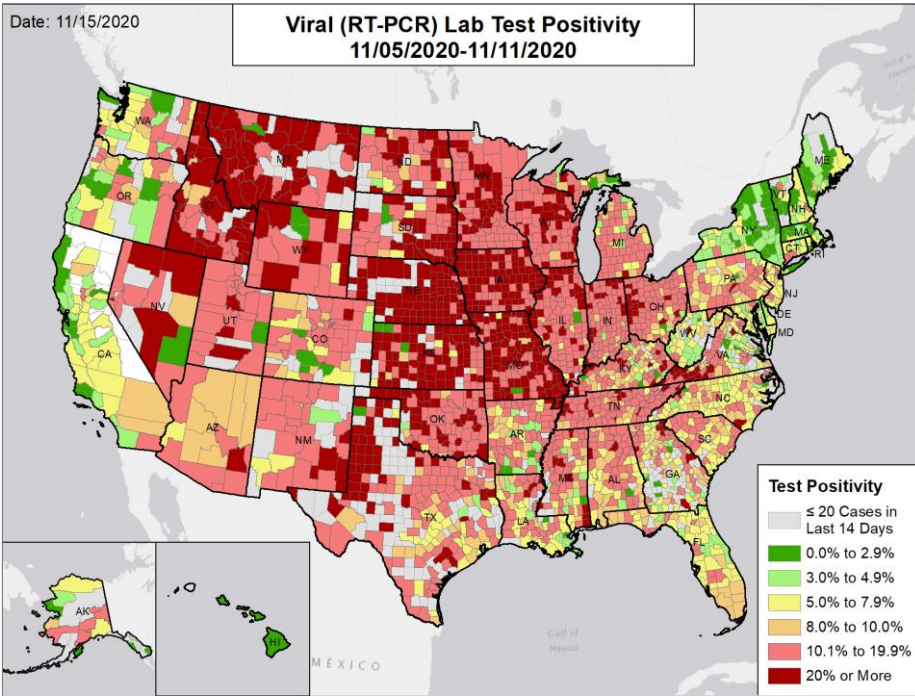
Cases: County-level data from USAFacts through 11/13/2020. The week one month before is 10/10 - 10/16; the week two months before is 9/12 - 9/18; the week three months before is 8/15 - 8/21; the week four months before is 7/18 - 7/24; the week five months before is 6/20 - 6/26; the week six months before is 5/23 - 5/29.



National Picture

VIRAL (RT-PCR) LAB TEST POSITIVITY

NATIONAL RANKING OF TEST POSITIVITY



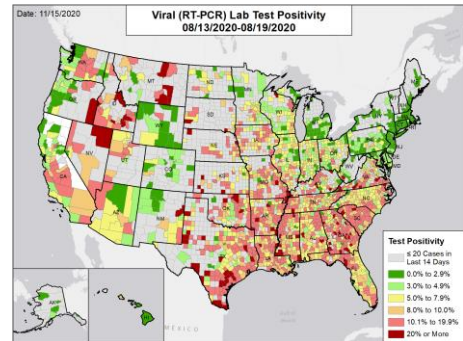
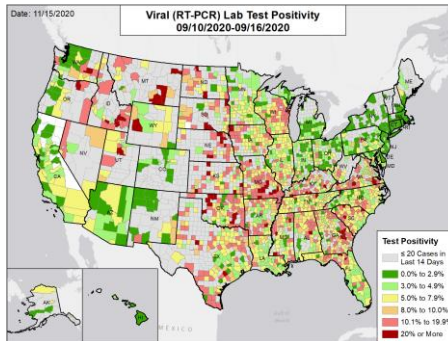
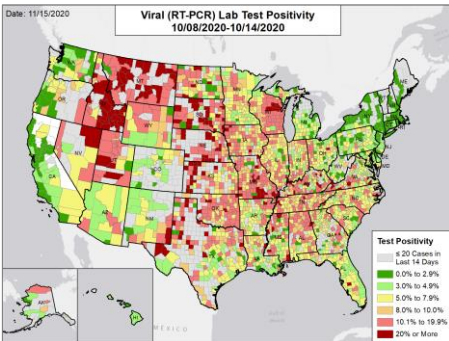
National Rank	State	National Rank	State
1	MT	27	AR
2	ID	28	OH
3	IA	29	PA
4	NE	30	AZ
5	KS	31	VA
6	SD	32	OR
7	MO	33	NJ
8	WI	34	CT
9	OK	35	GA
10	UT	36	FL
11	ND	37	NC
12	MN	38	LA
13	NV	39	MD
14	IL	40	WA
15	NM	41	NH
16	IN	42	WV
17	TN	43	DE
18	MI	44	CA
19	MS	45	RI
20	KY	46	ME
21	CO	47	NY
22	TX	48	MA
23	WY	49	DC
24	AL	50	HI
25	AK	51	VT
26	SC		

VIRAL (RT-PCR) LAB TEST POSITIVITY IN THE WEEK:

ONE MONTH BEFORE

TWO MONTHS BEFORE

THREE MONTHS BEFORE



DATA SOURCES

Note: Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.

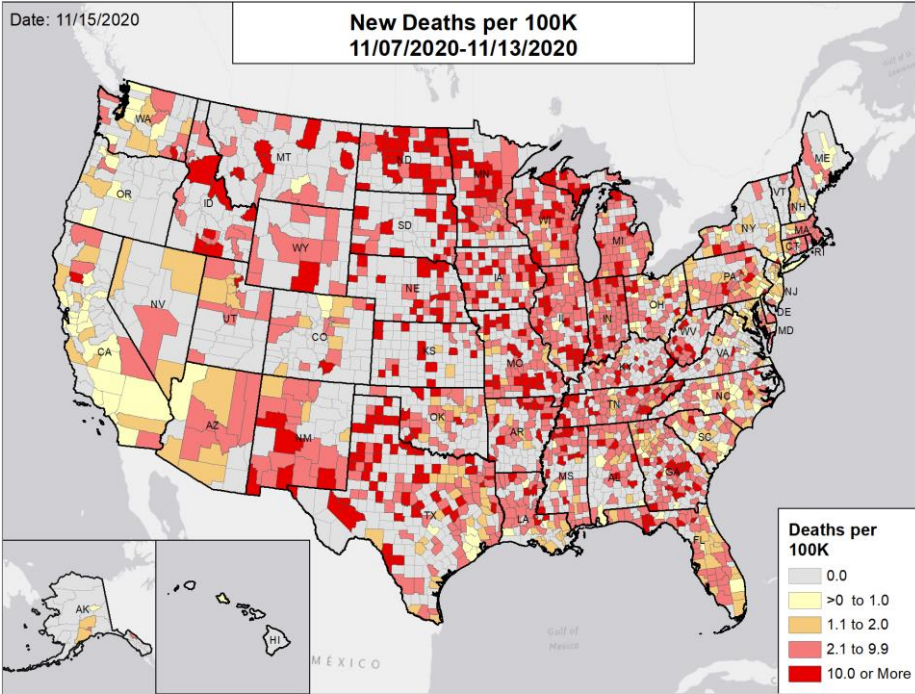
Testing: Combination of CELR (COVID-19 Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs) through 11/11/2020. The week one month before is 10/8 - 10/14; the week two months before is 9/10 - 9/16; the week three months before is 8/13 - 8/19.



National Picture

NEW DEATHS PER 100,000

NATIONAL RANKING OF NEW DEATHS PER 100,000



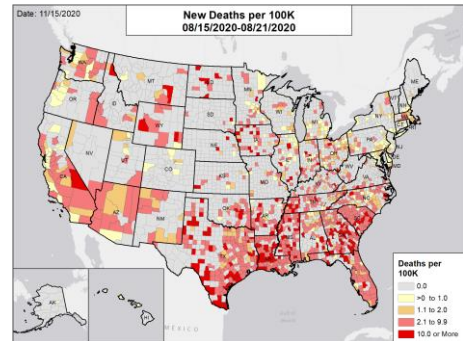
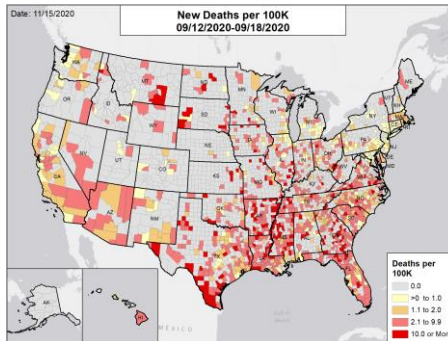
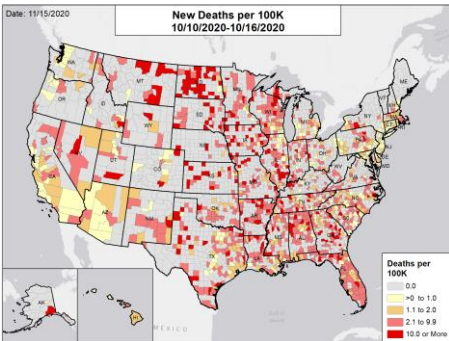
National Rank	State	National Rank	State
1	ND	27	CO
2	SD	28	LA
3	MT	29	AZ
4	WI	30	FL
5	NM	31	SC
6	IN	32	CT
7	TN	33	DE
8	WV	34	NY
9	MI	35	AK
10	IA	36	OH
11	ID	37	UT
12	WY	38	OK
13	NE	39	NV
14	MO	40	NC
15	AL	41	MD
16	MN	42	VA
17	IL	43	NJ
18	MS	44	WA
19	KS	45	ME
20	AR	46	OR
21	RI	47	NH
22	TX	48	CA
23	GA	49	DC
24	PA	50	HI
25	KY	51	VT
26	MA		

NEW DEATHS PER 100,000 IN THE WEEK:

ONE MONTH BEFORE

TWO MONTHS BEFORE

THREE MONTHS BEFORE



DATA SOURCES

Note: Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.

Deaths: County-level data from USAFacts through 11/13/2020. The week one month before is 10/10 - 10/16; the week two months before is 9/12 - 9/18; the week three months before is 8/15 - 8/21.



METHODS

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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). Values are rounded before color classification.

Metric	Dark Green	Light Green	Yellow	Orange	Red
New cases per 100,000 population per week	≤4	5 – 9	10 – 50	51 – 100	≥101
Percent change in new cases per 100,000 population	≤-26%	-25% – -11%	-10% – 0%	1% – 10%	≥11%
Diagnostic test result positivity rate	≤2.9%	3.0% – 4.9%	5.0% – 7.9%	8.0% – 10.0%	≥10.1%
Change in test positivity	≤-2.1%	-2.0% – -0.6%	-0.5% – 0.0%	0.1% – 0.5%	≥0.6%
Total diagnostic tests resulted per 100,000 population per week	≥2001	1001 – 2000	750 – 1000	500 – 749	≤499
Percent change in tests per 100,000 population	≥26%	11% – 25%	1% – 10%	-10% – 0%	≤-11%
COVID-19 deaths per 100,000 population per week	0.0		0.1 – 1.0	1.1 – 2.0	≥2.1
Percent change in deaths per 100,000 population	≤-26%	-25% – -11%	-10% – 0%	1% – 10%	≥11%
Skilled Nursing Facilities with at least one resident COVID-19 case, death	0%		1% – 5%		≥6%
Change in SNFs with at least one resident COVID-19 case, death	≤-2%		-1% – 1%		≥2%

DATA NOTES

- Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes. It is critical that states provide as up-to-date data as possible.
- Cases and deaths:** County-level data from USAFacts as of 18:35 EST on 11/15/2020. State values are calculated by aggregating county-level data from USAFacts; therefore, values may not match those reported directly by the state. Data are reviewed on a daily basis against internal and verified external sources and, if needed, adjusted.
- Testing:** The data presented represent viral COVID-19 laboratory diagnostic and screening test (reverse transcription polymerase chain reaction, RT-PCR) results—not individual people—and exclude antibody and antigen tests, unless stated otherwise. CELR (COVID-19 Electronic Lab Reporting) state health department-reported data are used to describe county-level viral COVID-19 laboratory test (RT-PCR) result 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 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. Because the data are deidentified, total viral (RT-PCR) laboratory tests are the number of tests performed, not the number of individuals tested. Viral (RT-PCR) laboratory test positivity rate is the number of positive tests divided by the number of tests performed and resulted. Resulted tests are assigned to a timeframe based on this hierarchy of test-related dates: 1. test date; 2. result date; 3. specimen received date; 4. specimen collection date. Resulted tests are assigned to a county based on a hierarchy of test-related locations: 1. patient residency; 2. provider facility location; 3. ordering facility location; 4. performing organization location. States may calculate test positivity other using other methods. Last week data are from 11/5 to 11/11; previous week data are from 10/29 to 11/4; the week one month before data are from 10/8 to 10/14. HHS Protect data is recent as of 17:58 EST on 11/15/2020. Testing data are inclusive of everything received and processed by the CELR system as of 19:00 EST on 11/14/2020.
- Hospitalizations:** Unified hospitalization dataset in HHS Protect. This figure may differ from state data due to differences in hospital lists and reporting between federal and state systems. These data exclude psychiatric, rehabilitation, and religious non-medical hospitals. In addition, hospitals explicitly identified by states/regions as those from which we should not expect reports were excluded from the percent reporting figure. The data presented represents raw data provided; we are working diligently with state liaisons to improve reporting consistency. Data is recent as of 19:14 EST on 11/15/2020.
- Hospital PPE:** Unified hospitalization dataset in HHS Protect. This figure may differ from state data due to differences in hospital lists and reporting between federal and state systems. These data exclude psychiatric, rehabilitation, and religious non-medical hospitals. In addition, hospitals explicitly identified by states/regions as those from which we should not expect reports were excluded from the percent reporting figure. Data is recent as of 16:19 EST on 11/14/2020.
- Skilled Nursing Facilities:** National Healthcare Safety Network (NHSN). Data report resident and staff cases independently. Quality checks are performed on data submitted to the NHSN. Data that fail these quality checks or appear inconsistent with surveillance protocols may be excluded from analyses. Data presented in this report are more recent than data publicly posted by CMS. Last week is 11/2-11/8, previous week is 10/26-11/1. Facilities that are undergoing reporting quality review are not included in the table, but may be included in other NHSN analyses.
- County and Metro Area Color Categorizations**
 - Red Zone:** Those core-based statistical areas (CBSAs) and counties that during the last week reported both new cases at or above 101 per 100,000 population, and a lab test positivity result at or above 10.1%.
 - Orange Zone:** Those CBSAs and counties that during the last week reported both new cases between 51–100 per 100,000 population, and a lab test positivity result between 8.0–10.0%, or one of those two conditions and one condition qualifying as being in the “Red Zone.”
 - Yellow Zone:** Those CBSAs and counties that during the last week reported both new cases between 10–50 per 100,000 population, and a lab test positivity result between 5.0–7.9%, or one of those two conditions and one condition qualifying as being in the “Orange Zone” or “Red Zone.”