KENTUCKY

SUMMARY

- Kentucky is in the red zone for cases, indicating 101 or more new cases per 100,000 population, with the 24th highest rate in the country. Kentucky is in the red zone for test positivity, indicating a rate at or above 10.1%, with the 20th highest rate in the country.
- Kentucky 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. Jefferson County, 2. Fayette County, and 3. Kenton County. These counties represent 31.8% of new cases in Kentucky.
- 89% of all counties in Kentucky have moderate or high levels of community transmission (yellow, orange, or red zones), with 55% having high levels of community transmission (red zone).
- During the week of Nov 2 - Nov 8, 26% of nursing homes had at least one new resident COVID-19 case, 47% had at least one new staff COVID-19 case, and 9% had at least one new resident COVID-19 death.
- Kentucky had 344 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: 1 to support operations activities from FEMA and 7 to support medical activities from VA.
- The federal government has supported surge testing in Louisville, KY.
- Between Nov 7 - Nov 13, on average, 307 patients with confirmed COVID-19 and 122 patients with suspected COVID-19 were reported as newly admitted each day to hospitals in Kentucky. 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.
- We share the strong concern of Kentucky leaders that the current situation is worsening and that all Kentuckians need to do their part to stop the spread. The Governor's active measures are commended.
- With nearly all counties in the red zone, even more incident cases than one month before, and nearly 50% of nursing homes with at least one positive staff member, mitigation efforts need to be increased. 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.
- Recruit local influencers to message to rural and urban communities basic actions to take now:
    - Do not gather without a mask with individuals living outside of your household.
    - Always wear a mask in public places.
    - Stop gatherings beyond immediate household until cases and test positivity are in the yellow zone.
    - Get your flu shot.
- Conduct active testing in schools 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 two past weeks, hospitalizations continued to increase. Work with hospitals to improve reporting of all data. 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.

COVID-19

KENTUCKY

STATE REPORT | 11.15.2020

	STATE	STATE, % CHANGE FROM PREVIOUS WEEK	FEMA/HHS REGION	UNITED STATES
NEW COVID-19 CASES (RATE PER 100,000)	15,369 (344)	+26%	137,205 (205)	965,105 (294)
VIRAL (RT-PCR) LAB TEST POSITIVITY RATE	12.5%	+1.7%*	9.2%	10.1%
TOTAL VIRAL (RT-PCR) LAB TESTS (TESTS PER 100,000)	113,011** (2,530**)	-4%**	1,192,343** (1,782**)	8,782,353** (2,676**)
COVID-19 DEATHS (RATE PER 100,000)	104 (2.3)	+53%	1,629 (2.4)	7,608 (2.3)
SNFs WITH ≥1 NEW RESIDENT COVID-19 CASE	26%	+0%*	17%	17%
SNFs WITH ≥1 NEW STAFF COVID-19 CASE	47%	+5%*	33%	36%
SNFs WITH ≥1 NEW RESIDENT COVID-19 DEATH	9%	+1%*	5%	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.
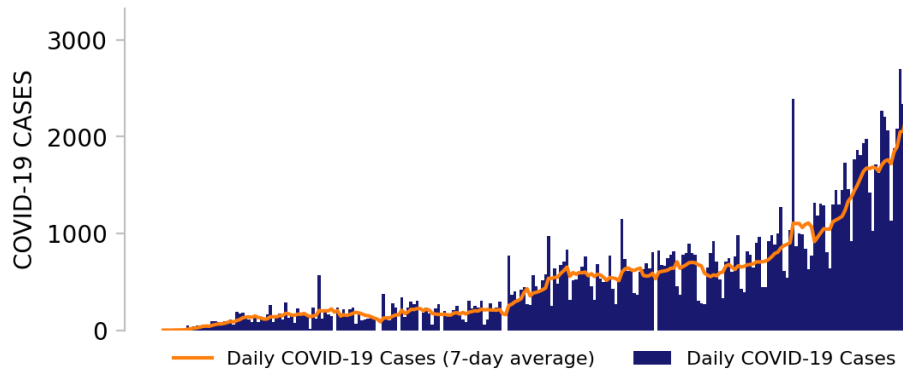**SNFs:** Skilled nursing facilities. National Healthcare Safety Network. Data are reported separately for cases among residents and staff. Data is through 11/8/2020, previous week is 10/26-11/1. Facilities that are undergoing reporting quality review are not included in the table, but may be included in other NHSN analyses.
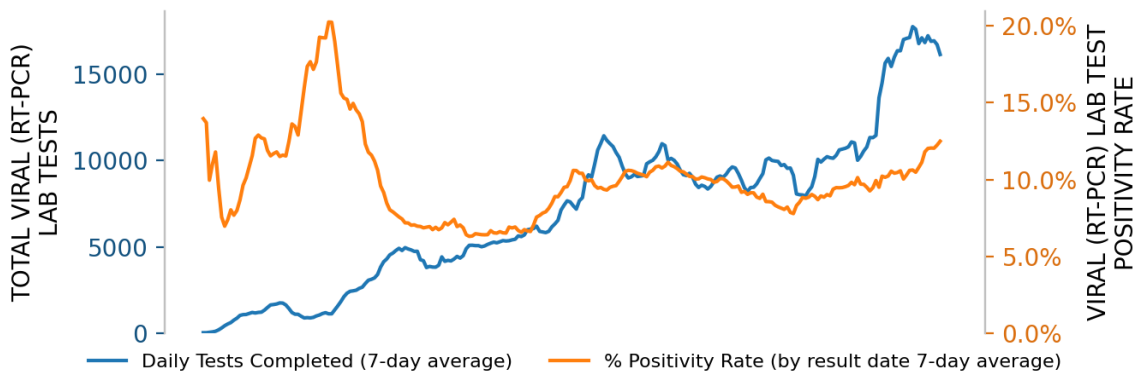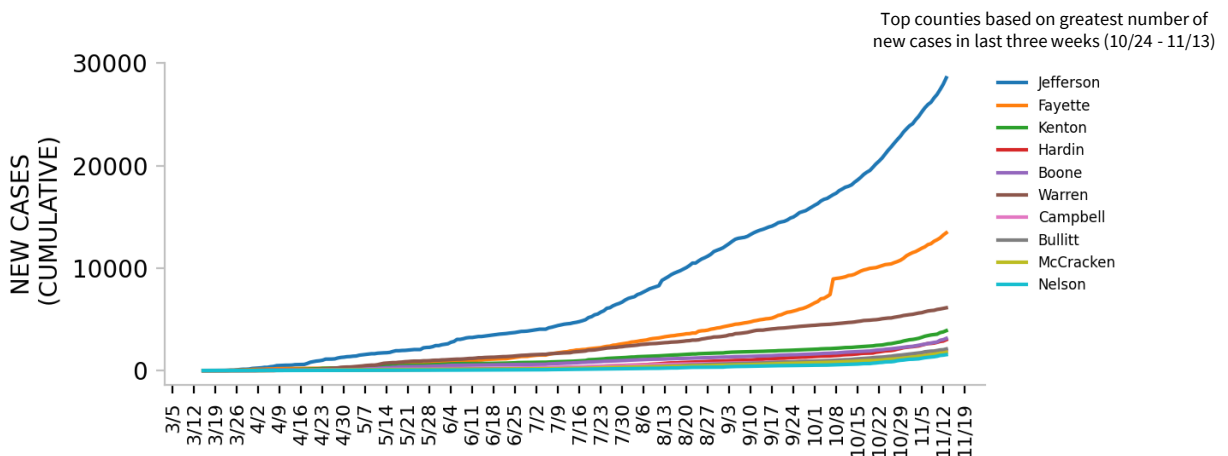
KENTUCKY
STATE REPORT | 11.15.2020

NEW CASES

▶

COVID-19 CASES

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

TESTING

▶

TOTAL VIRAL (RT-PCR) LAB TESTS

VIRAL (RT-PCR) LAB TEST POSITIVITY RATE

- Daily Tests Completed (7-day average)
- % Positivity Rate (by result date 7-day average)

TOP COUNTIES

▶

NEW CASES (CUMULATIVE)

Top counties based on greatest number of new cases in last three weeks (10/24 - 11/13)

- Jefferson
- Fayette
- Kenton
- Hardin
- Boone
- Warren
- Campbell
- Bullitt
- McCracken
- Nelson

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.
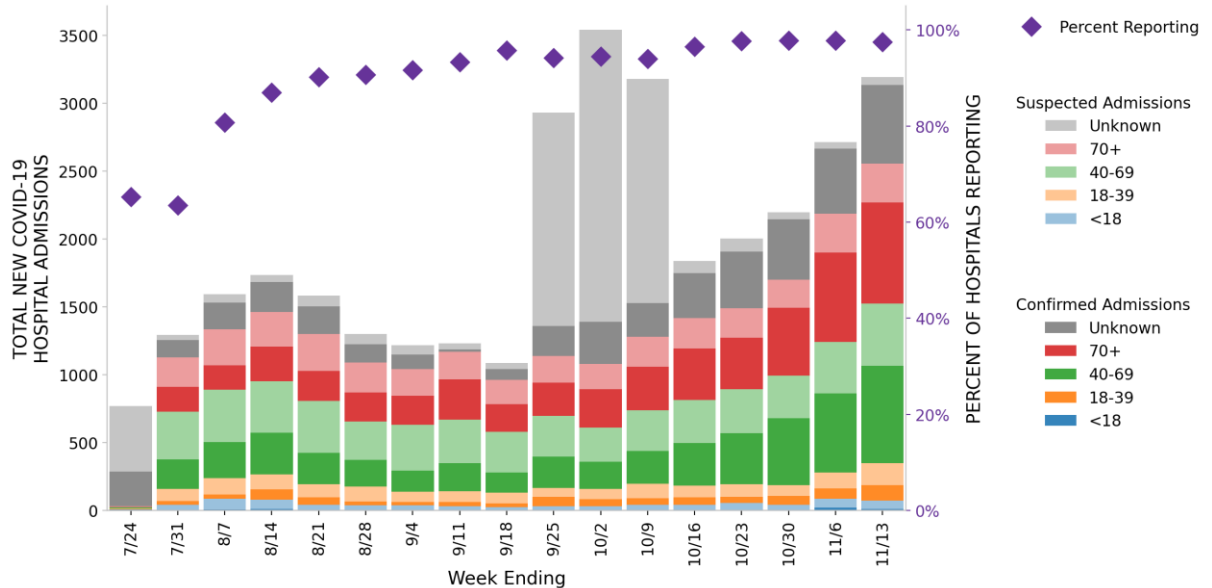**Testing:** CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 11/11/2020.
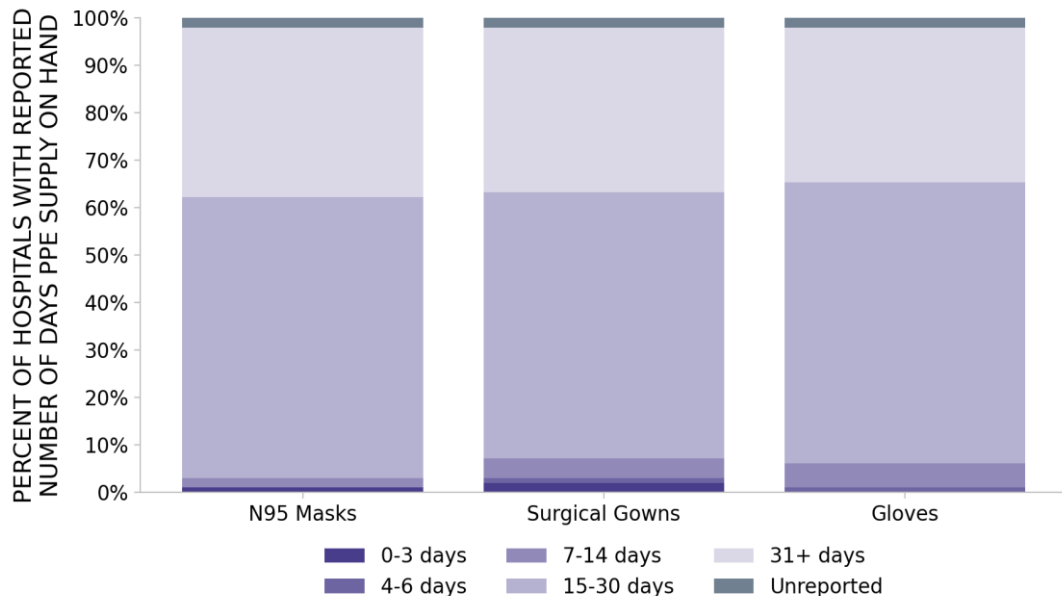
KENTUCKY
STATE REPORT | 11.15.2020

98 hospitals are expected to report in Kentucky

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.

KENTUCKY
STATE REPORT | 11.15.2020
COVID-19 COUNTY AND METRO ALERTS*
Top 12 shown in table (full lists below)

	METRO AREA (CBSA)	COUNTIES
LOCALITIES IN RED ZONE	**17** ▲ (+10) — Louisville/Jefferson County, Lexington-Fayette, Cincinnati, London, Elizabethtown-Fort Knox, Bowling Green, Owensboro, Paducah, Bardstown, Clarksville, Evansville, Murray	**66** ▲ (+27) — Jefferson, Fayette, Kenton, Hardin, Boone, Warren, Campbell, Bullitt, McCracken, Nelson, Daviess, Pike
LOCALITIES IN ORANGE ZONE	**5** ▼ (-1) — Richmond-Berea, Glasgow, Madisonville, Frankfort, Danville	**24** ▲ (+1) — Christian, Madison, Barren, Hopkins, Whitley, Hart, Grayson, Boyle, Clark, Ohio, Woodford, Caldwell
LOCALITIES IN YELLOW ZONE	**2** ▼ (-7) — Huntington-Ashland, Mount Sterling	**17** ▼ (-15) — Scott, Montgomery, Lincoln, Lewis, Jackson, Anderson, Rockcastle, Allen, Adair, Breathitt, Bath, Fleming

Change from previous week's alerts: ▲ Increase ■ Stable ▼ Decrease

All Red CBSAs: Louisville/Jefferson County, Lexington-Fayette, Cincinnati, London, Elizabethtown-Fort Knox, Bowling Green, Owensboro, Paducah, Bardstown, Clarksville, Evansville, Murray, Middlesborough, Mayfield, Campbellsville, Central City, Maysville

All Red Counties: Jefferson, Fayette, Kenton, Hardin, Boone, Warren, Campbell, Bullitt, McCracken, Nelson, Daviess, Pike, Laurel, Floyd, Shelby, Henderson, Calloway, Bell, Graves, Jessamine, Elliott, Oldham, Boyd, Monroe, Clay, Greenup, Marion, Johnson, Franklin, Lee, Perry, Knox, Marshall, Logan, Rowan, Grant, Taylor, Carter, Larue, Meade, Muhlenberg, Spencer, Magoffin, Webster, Washington, Breckinridge, McLean, Knott, Bourbon, Lawrence, Wayne, Union, Powell, Pendleton, Mason, Hancock, Morgan, Clinton, Butler, Trigg, Livingston, Green, Lyon, Carlisle, Ballard, Fulton

All Orange Counties: Christian, Madison, Barren, Hopkins, Whitley, Hart, Grayson, Boyle, Clark, Ohio, Woodford, Caldwell, Harlan, Martin, Simpson, Henry, Metcalfe, Estill, Russell, Harrison, Casey, Carroll, Cumberland, Bracken

All Yellow Counties: Scott, Montgomery, Lincoln, Lewis, Jackson, Anderson, Rockcastle, Allen, Adair, Breathitt, Bath, Fleming, Todd, Wolfe, Edmonson, Trimble, Gallatin

* 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.
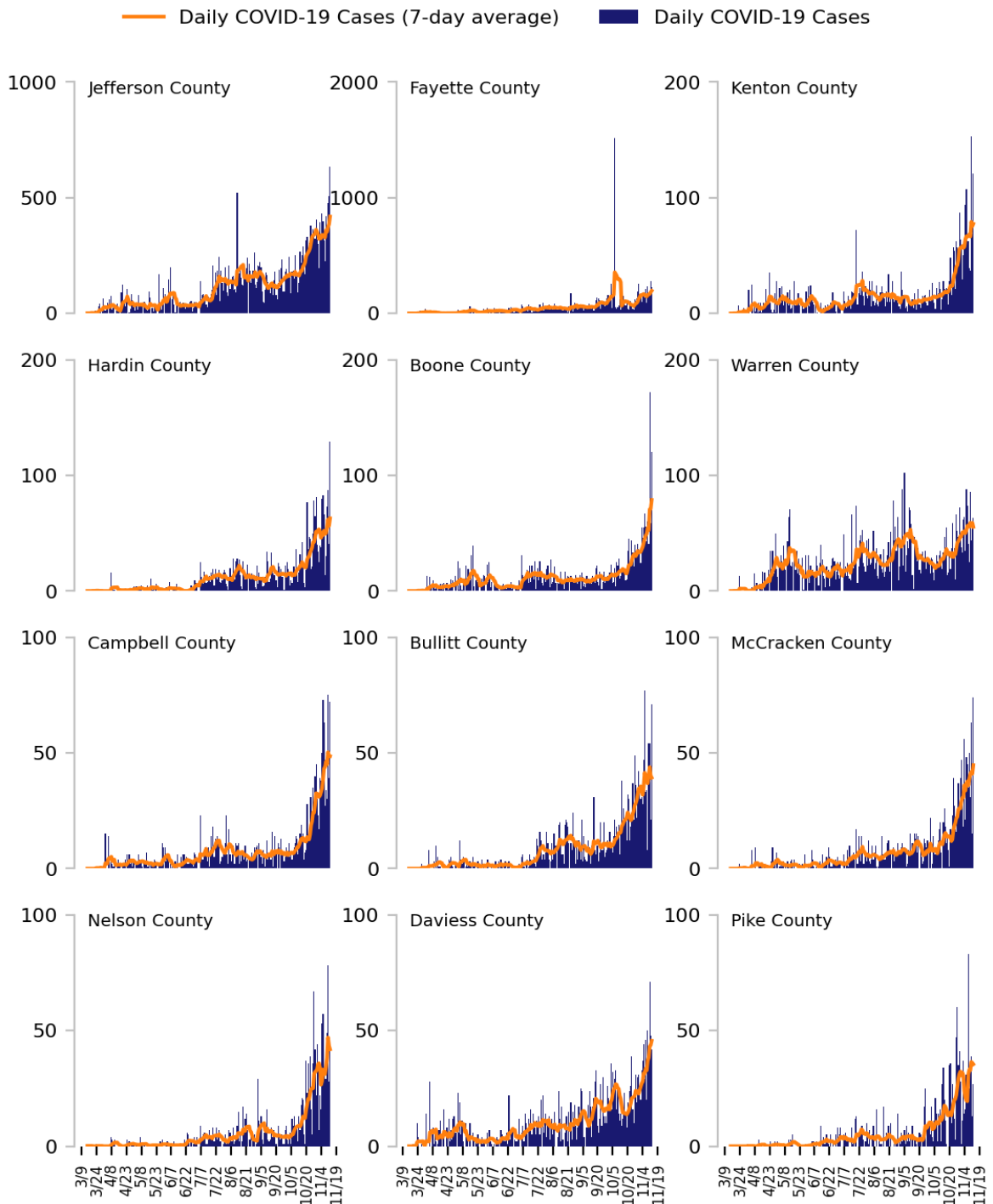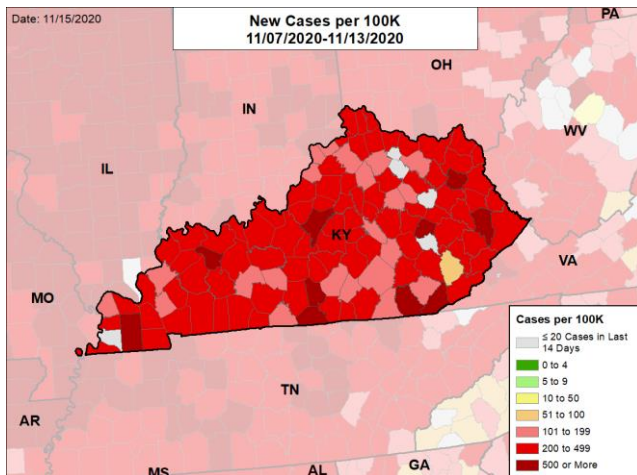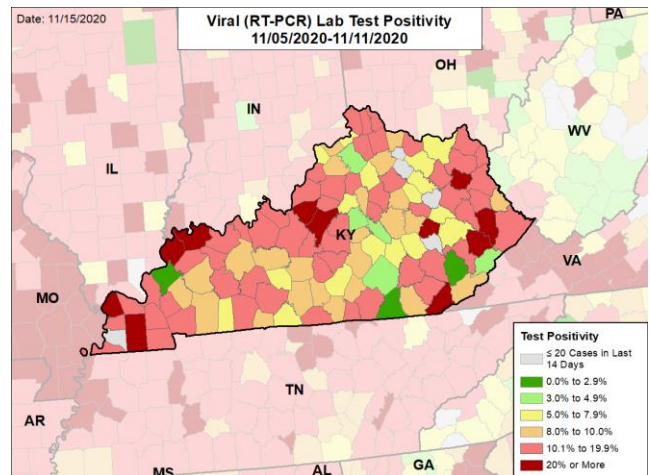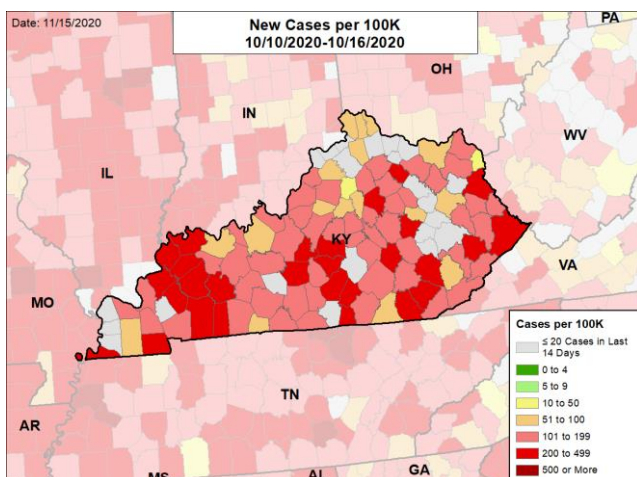**DATA SOURCES** – Additional data details available under METHODS
Cases and Deaths: State values are calculated by aggregating county-level data from USAFacts; therefore, the values may not match those reported directly by the state. Data is through 11/13/2020.
Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data 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

Jefferson County

Fayette County

Kenton County

Hardin County

Boone County

Warren County

Campbell County

Bullitt County

McCracken County

Nelson County

Daviess County

Pike County

KENTUCKY

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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.
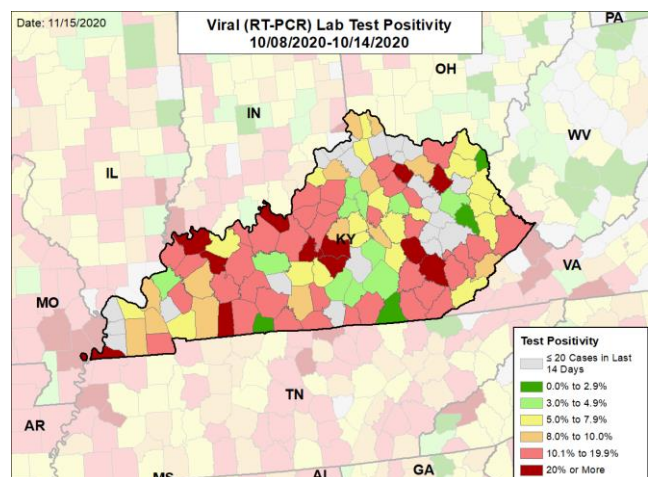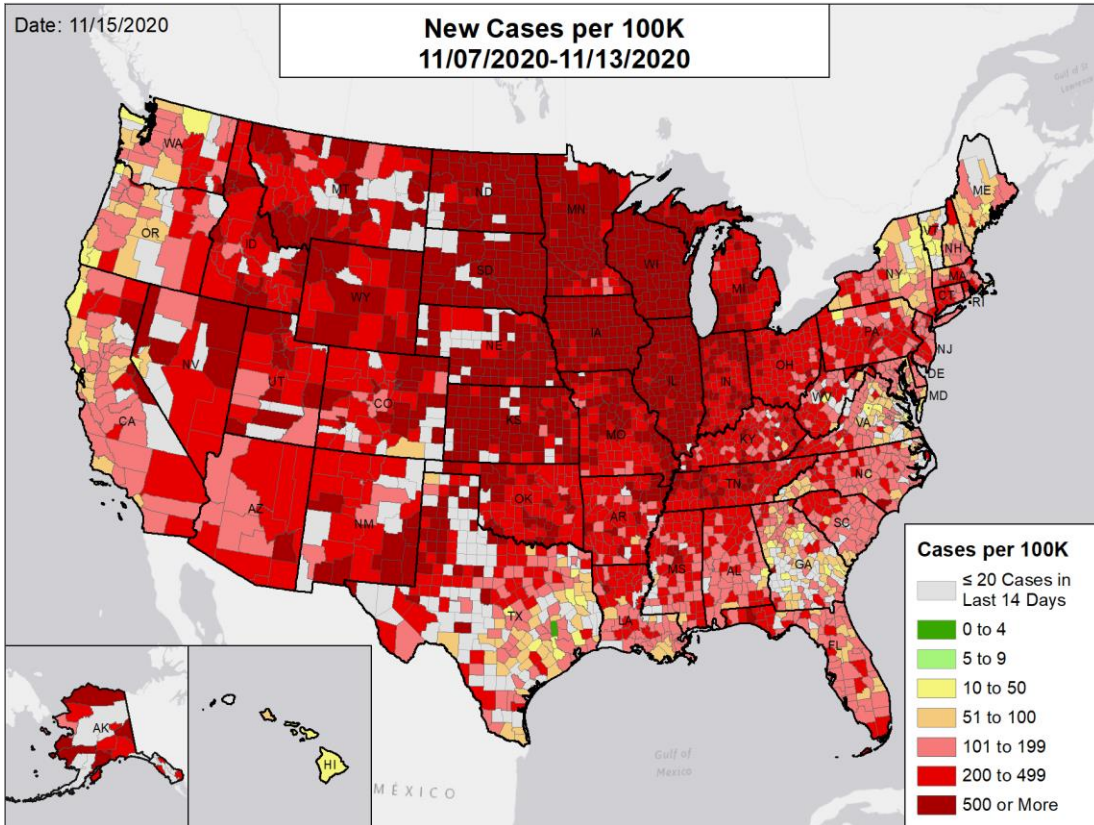**Cases:** State values are calculated by aggregating county-level data from USAFacts; therefore, the values may not match those reported directly by the state. Data is through 11/13/2020. The week one month before is 10/10 - 10/16.
Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 11/11/2020. The week one month before is 10/8 - 10/14.

National Picture

NEW CASES PER 100,000

Date: 11/15/2020

**New Cases per 100K
11/07/2020-11/13/2020**

Cases per 100K
- ≤ 20 Cases in Last 14 Days
- 0 to 4
- 5 to 9
- 10 to 50
- 51 to 100
- 101 to 199
- 200 to 499
- 500 or More

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

National Picture

NEW CASES PER 100,000 IN THE WEEK:

ONE MONTH BEFORE

TWO MONTHS BEFORE

THREE MONTHS BEFORE
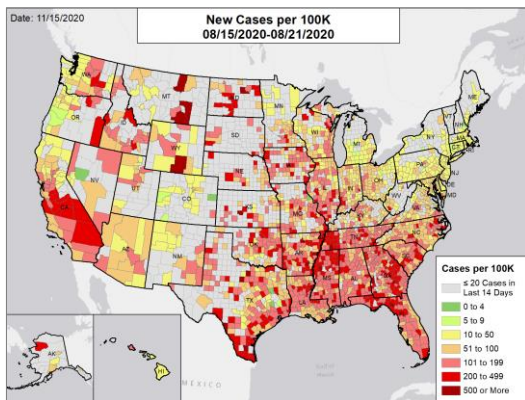
FOUR MONTHS BEFORE
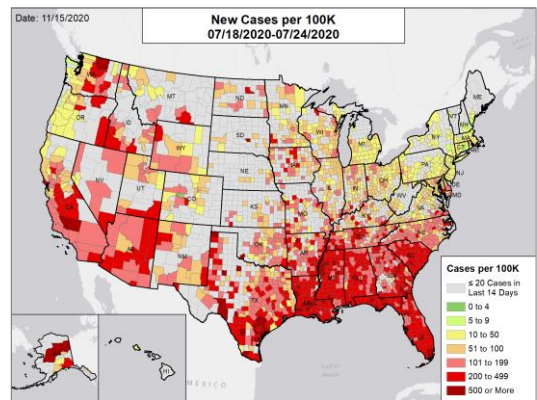
FIVE MONTHS BEFORE
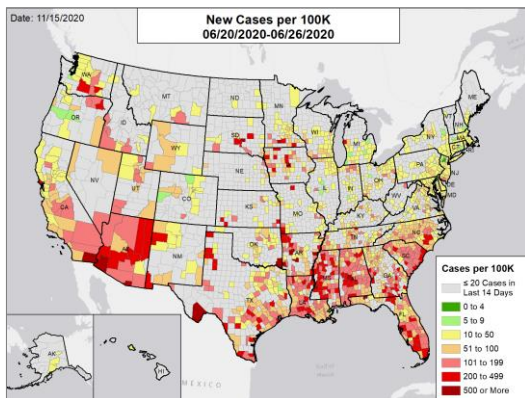
SIX MONTHS BEFORE
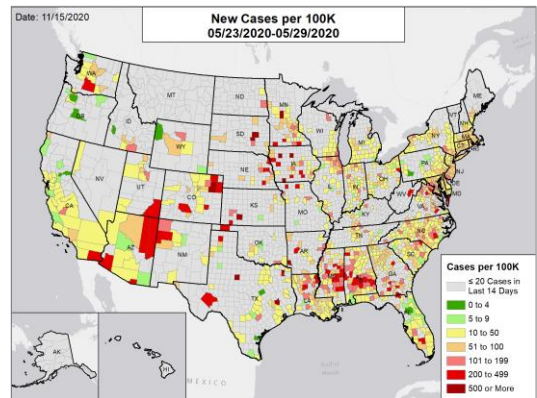
DATA SOURCES
Note: Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.

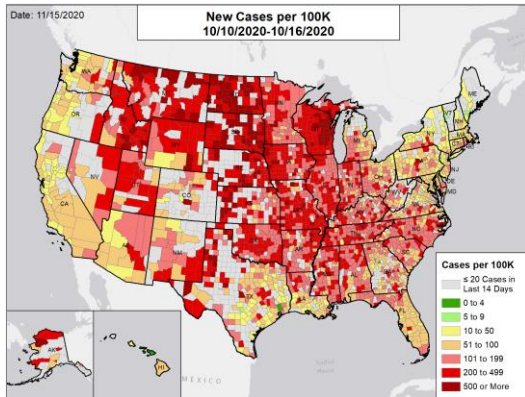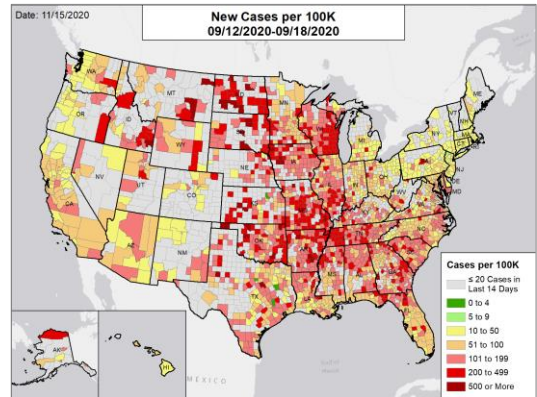**Cases:** County-level data from USAFacts through 11/13/2020. The week one month before is 10/10 - 10/16; the week two months before is 9/12 - 9/18; the week three months before is 8/15 - 8/21; the week four months before is 7/18 - 7/24; the week five months before is 6/20 - 6/26; the week six months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

National Picture

VIRAL (RT-PCR) LAB TEST POSITIVITY

Date: 11/15/2020

Viral (RT-PCR) Lab Test Positivity
11/05/2020-11/11/2020

Test Positivity
- ≤ 20 Cases in Last 14 Days
- 0.0% to 2.9%
- 3.0% to 4.9%
- 5.0% to 7.9%
- 8.0% to 10.0%
- 10.1% to 19.9%
- 20% or More

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

Date: 11/15/2020

Viral (RT-PCR) Lab Test Positivity
10/08/2020-10/14/2020

TWO MONTHS BEFORE

Date: 11/15/2020

Viral (RT-PCR) Lab Test Positivity
09/10/2020-09/16/2020

THREE MONTHS BEFORE

Date: 11/15/2020

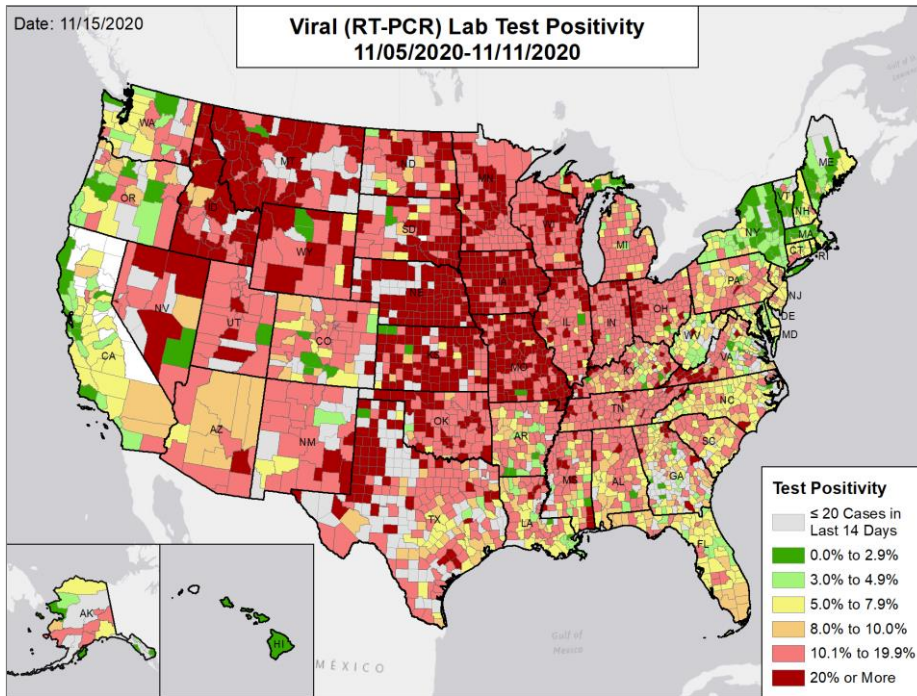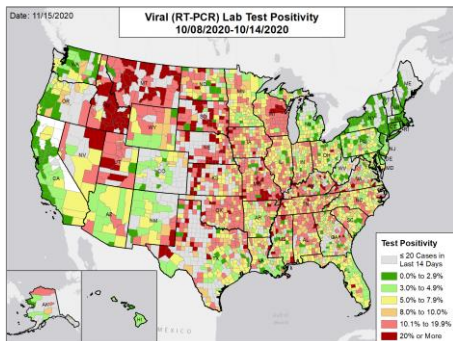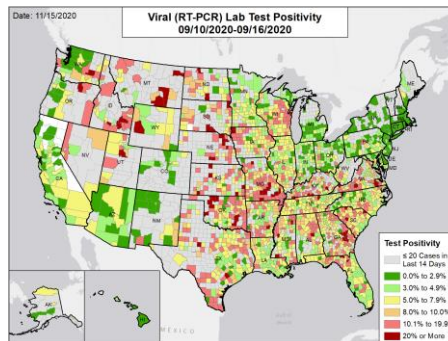Viral (RT-PCR) Lab Test Positivity
08/13/2020-08/19/2020

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. Tthe 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

Date: 11/15/2020

New Deaths per 100K
11/07/2020-11/13/2020

Deaths per 100K
- 0.0
- >0 to 1.0
- 1.1 to 2.0
- 2.1 to 9.9
- 10.0 or More

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:
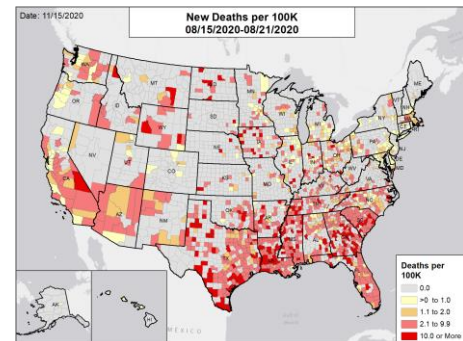
ONE MONTH BEFORE

Date: 11/15/2020

New Deaths per 100K
10/10/2020-10/16/2020

Deaths per 100K
- 0.0
- >0 to 1.0
- 1.1 to 2.0
- 2.1 to 9.9
- 10.0 or More

TWO MONTHS BEFORE

Date: 11/15/2020

New Deaths per 100K
09/12/2020-09/18/2020

Deaths per 100K
- 0.0
- >0 to 1.0
- 1.1 to 2.0
- 2.1 to 9.9
- 10.0 or More

THREE MONTHS BEFORE

Date: 11/15/2020

New Deaths per 100K
08/15/2020-08/21/2020

Deaths per 100K
- 0.0
- >0 to 1.0
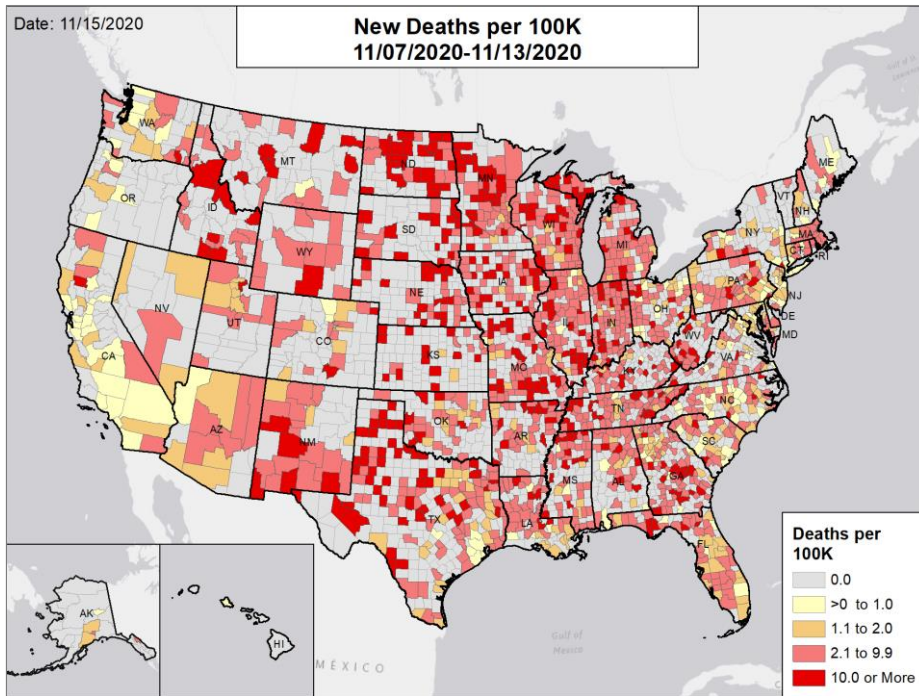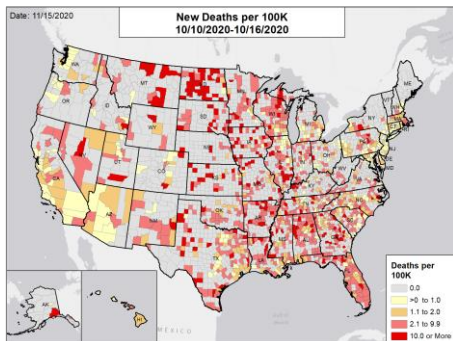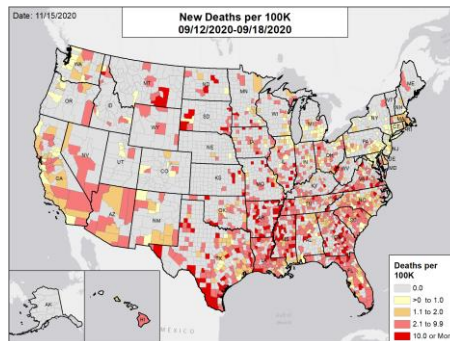- 1.1 to 2.0
- 2.1 to 9.9
- 10.0 or More

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."