TENNESSEE

SUMMARY

- Tennessee is in the red zone for cases, indicating 101 or more new cases per 100,000 population, with the 16th highest rate in the country. Tennessee is in the red zone for test positivity, indicating a rate at or above 10.1%, with the 14th highest rate in the country.
- Tennessee has seen stability in new cases and stability in test positivity.
- The following three counties had the highest number of new cases over the last 3 weeks: 1. Shelby County, 2. Davidson County, and 3. Knox County. These counties represent 26.6% of new cases in Tennessee.
- 99% of all counties in Tennessee have moderate or high levels of community transmission (yellow, orange, or red zones), with 67% having high levels of community transmission (red zone).
- During the week of Oct 19 - Oct 25, 20% of nursing homes had at least one new resident COVID-19 case, 34% had at least one new staff COVID-19 case, and 7% had at least one new resident COVID-19 death.
- Tennessee had 263 new cases per 100,000 population, compared to a national average of 165 per 100,000.
- Current staff deployed from the federal government as assets to support the state response are: 2 to support operations activities from FEMA.
- Between Oct 24 - Oct 30, on average, 178 patients with confirmed COVID-19 and 105 patients with suspected COVID-19 were reported as newly admitted each day to hospitals in Tennessee. An average of greater than 95% of hospitals reported either new confirmed or new suspected COVID patients each day during this period.

RECOMMENDATIONS

- As you can see from the time sequence of maps at the back of your packet, there is a continued increase in cases, hospitalizations, and fatalities nationally, spreading southward from the coldest climates as the population moves indoors and cases increase exponentially. These maps demonstrate the previous impact of comprehensive mitigation efforts when implemented effectively in many areas and that partial or incomplete mitigation leads to prolonged community spread, hospitalizations, and increased fatalities.
- Must focus testing to find the asymptomatic transmission. With cases and new hospital admissions at high levels, transmission must be reduced.
- With the daily new hospital admissions at high levels, there must be clear messaging to Tennesseans to act 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 decrease significantly.
- Effective practices to decrease transmission in public spaces include limiting restaurant indoor capacity to less than 50% and restricting hours until cases and test positivity decrease.
- Behaviors seem to be eroding in university towns with increasing cases and test positivity. Review testing at universities; if they have not been testing all students (on and off campus) weekly, then work with them to implement weekly testing protocols.
- Prioritize the use of Abbot BinaxNOW:
    - Implement weekly sentinel surveillance among specific populations to provide detailed trend data on where the virus is and direct mitigation efforts. Target populations should include healthcare workers, K-12 teachers, prison staff, and first responders.
    - Find asymptomatic cases to stop the source of spread; primarily test those younger than 40 years old.
- In areas with low positivity, confirm positives with RT-PCR testing. Realign contact tracing staff to support new testing approaches. Visualize integrated surveillance data on dashboard so community can see local virus changes.
- In accordance with CDC guidelines, masks must be worn by students and teachers in K-12 schools.
- Work with hospitals, chambers of commerce, and others to create and communicate PSAs on taking smart actions to stay open, including targeted messages to rural communities.
- Ensure all hospitals, including rural hospitals, have access to antivirals, antibodies, and ventilators.
- Specific, detailed guidance on community mitigation measures can be found on the CDC website.

COVID-19

TENNESSEE

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	STATE	STATE, % CHANGE FROM PREVIOUS WEEK	FEMA/HHS REGION	UNITED STATES
NEW COVID-19 CASES (RATE PER 100,000)	17,973 (263)	+0%	103,362 (154)	542,805 (165)
VIRAL (RT-PCR) LAB TEST POSITIVITY RATE	10.3%	+0.2%*	7.6%	6.7%
TOTAL VIRAL (RT-PCR) LAB TESTS (TESTS PER 100,000)	136,198** (1,994**)	+14%**	1,192,631** (1,782**)	7,430,977** (2,264**)
COVID-19 DEATHS (RATE PER 100,000)	269 (3.9)	+32%	1,428 (2.1)	5,623 (1.7)
SNFs WITH ≥1 NEW RESIDENT COVID-19 CASE	20%	+0%*	15%	13%
SNFs WITH ≥1 NEW STAFF COVID-19 CASE	34%	-1%*	28%	26%
SNFs WITH ≥1 NEW RESIDENT COVID-19 DEATH	7%	-2%*	6%	4%

* 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 10/30/2020; previous week is 10/17 - 10/23.
Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 10/28/2020. Previous week is 10/15 - 10/21.
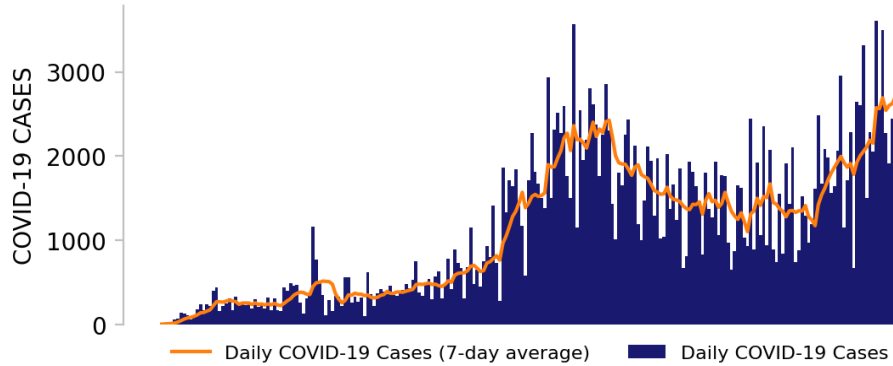**SNFs:** Skilled nursing facilities. National Healthcare Safety Network. Data are reported separately for cases among residents and staff. Data is through 10/25/2020, previous week is 10/12-10/18. Facilities that are undergoing reporting quality review are not included in the table, but may be included in other NHSN analyses.
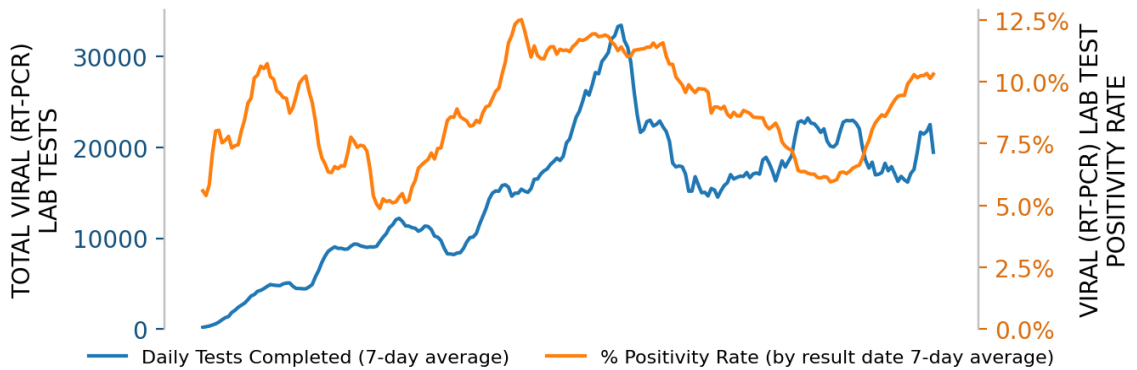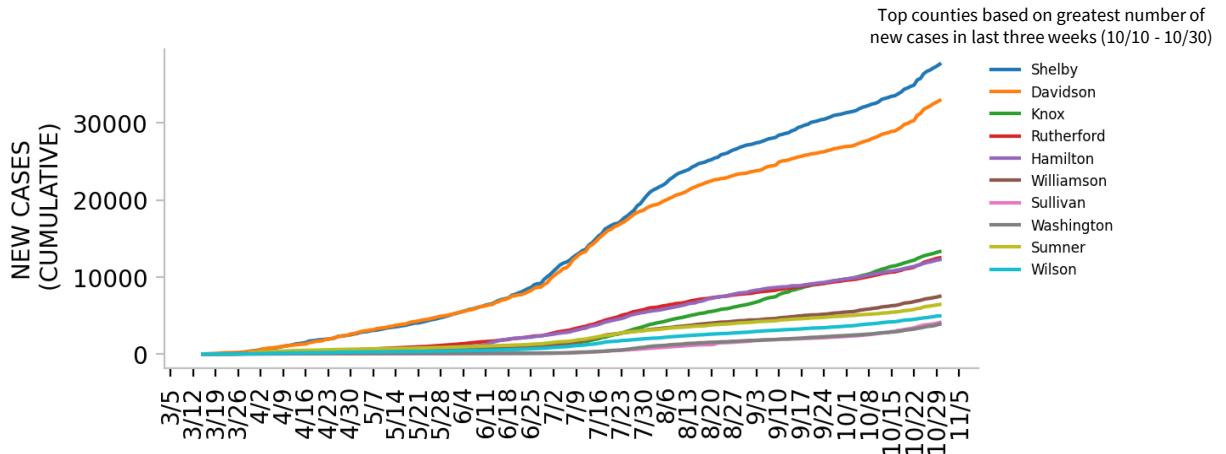
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NEW CASES ▶

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

TESTING ▶

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

TOP COUNTIES ▶

Top counties based on greatest number of new cases in last three weeks (10/10 - 10/30)

- Shelby
- Davidson
- Knox
- Rutherford
- Hamilton
- Williamson
- Sullivan
- Washington
- Sumner
- Wilson

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 10/30/2020.
Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 10/28/2020.
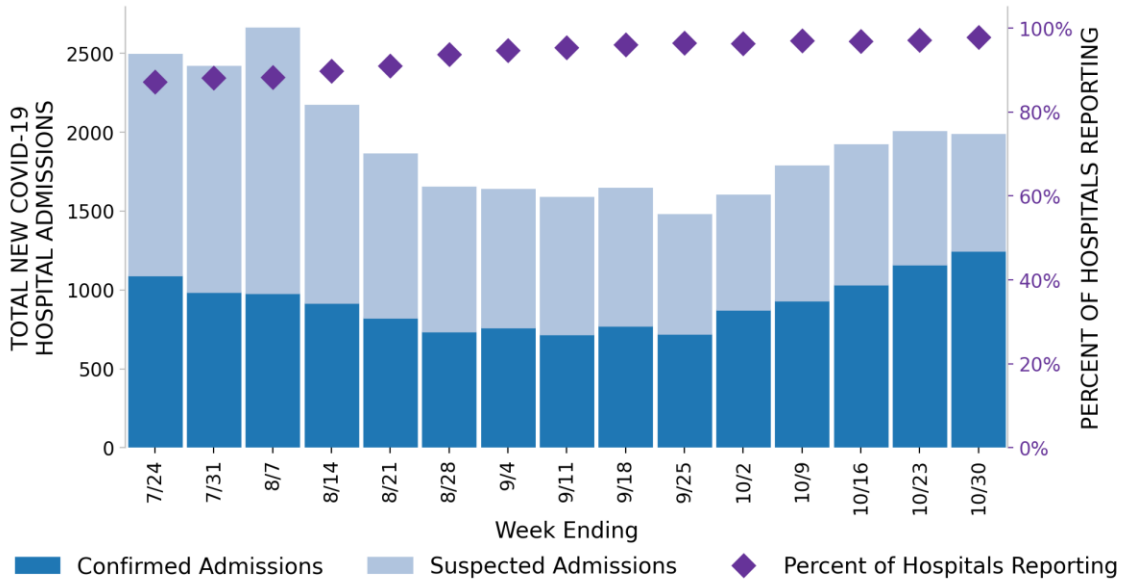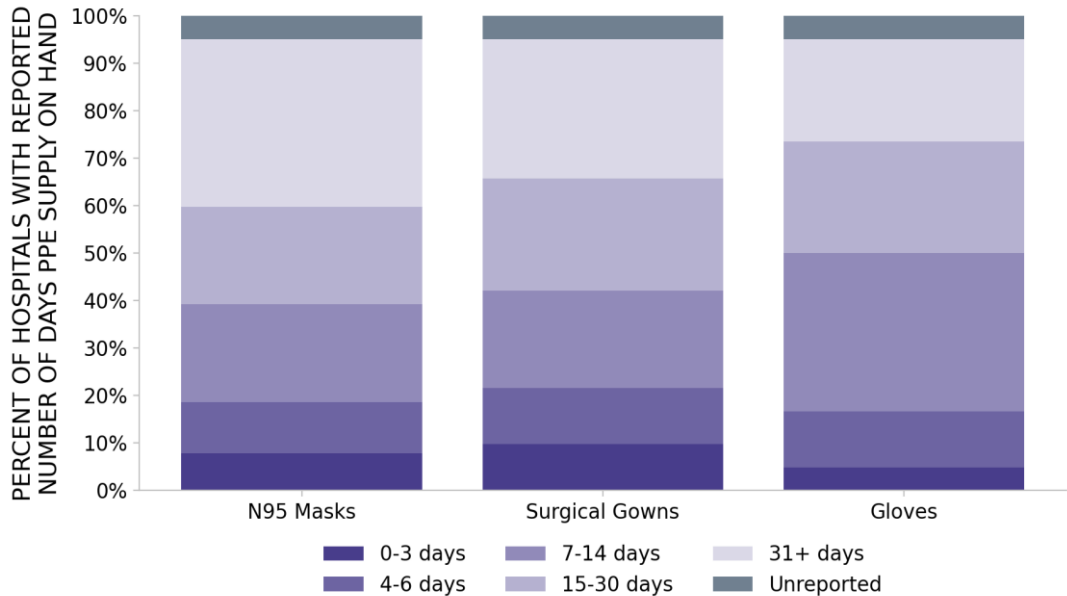
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102 hospitals are expected to report in Tennessee

HOSPITAL ADMISSIONS ▶

Legend: Confirmed Admissions | Suspected Admissions | ◆ Percent of Hospitals Reporting

HOSPITAL PPE SUPPLIES ▶

Legend: 0-3 days | 7-14 days | 31+ days | 4-6 days | 15-30 days | Unreported

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 10/28/2020.

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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	**17** ▼ (-5)	Nashville-Davidson--Murfreesboro--Franklin, Chattanooga, Johnson City, Kingsport-Bristol, Cookeville, Dyersburg, Sevierville, Cleveland, Greeneville, Lawrenceburg, Union City, Shelbyville	**64** ▼ (-6)	Rutherford, Hamilton, Williamson, Sullivan, Washington, Sumner, Wilson, Maury, Putnam, Dyer, Sevier, Greene
LOCALITIES IN ORANGE ZONE	**10** ▲ (+5)	Memphis, Knoxville, Jackson, Clarksville, Morristown, Tullahoma-Manchester, Athens, McMinnville, Lewisburg, Crossville	**20** ▲ (+4)	Knox, Montgomery, Blount, Madison, Coffee, Anderson, McMinn, Hamblen, Hawkins, Warren, Marshall, Cumberland
LOCALITIES IN YELLOW ZONE	**0** ■ (+0)	N/A	**10** ▲ (+3)	Shelby, Davidson, Campbell, Jefferson, Hardin, Carroll, Clay, Benton, Wayne, Claiborne

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

All Red CBSAs: Nashville-Davidson--Murfreesboro--Franklin, Chattanooga, Johnson City, Kingsport-Bristol, Cookeville, Dyersburg, Sevierville, Greeneville, Cleveland, Lawrenceburg, Union City, Shelbyville, Newport, Martin, Brownsville, Dayton, Paris

All Red Counties: Rutherford, Hamilton, Williamson, Sullivan, Washington, Sumner, Wilson, Maury, Putnam, Dyer, Sevier, Greene, Bradley, Lawrence, Tipton, Carter, Roane, Fayette, Obion, Dickson, Lauderdale, Monroe, Bedford, Robertson, Overton, Cocke, Loudon, Crockett, White, Cheatham, Lincoln, Macon, Fentress, Marion, Haywood, Smith, Lewis, Rhea, Johnson, Unicoi, Perry, Grundy, Grainger, DeKalb, Henderson, Henry, Hickman, Bledsoe, Humphreys, Union, Pickett, Jackson, Decatur, Polk, Cannon, Stewart, Trousdale, Houston, Meigs, Moore, Chester, Van Buren, Hancock

All Orange Counties: Knox, Montgomery, Blount, Madison, Coffee, Anderson, McMinn, Hamblen, Hawkins, Warren, Marshall, Cumberland, Gibson, Hardeman, Franklin, Giles, McNairy, Scott, Sequatchie, Lake

* 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 10/30/2020.
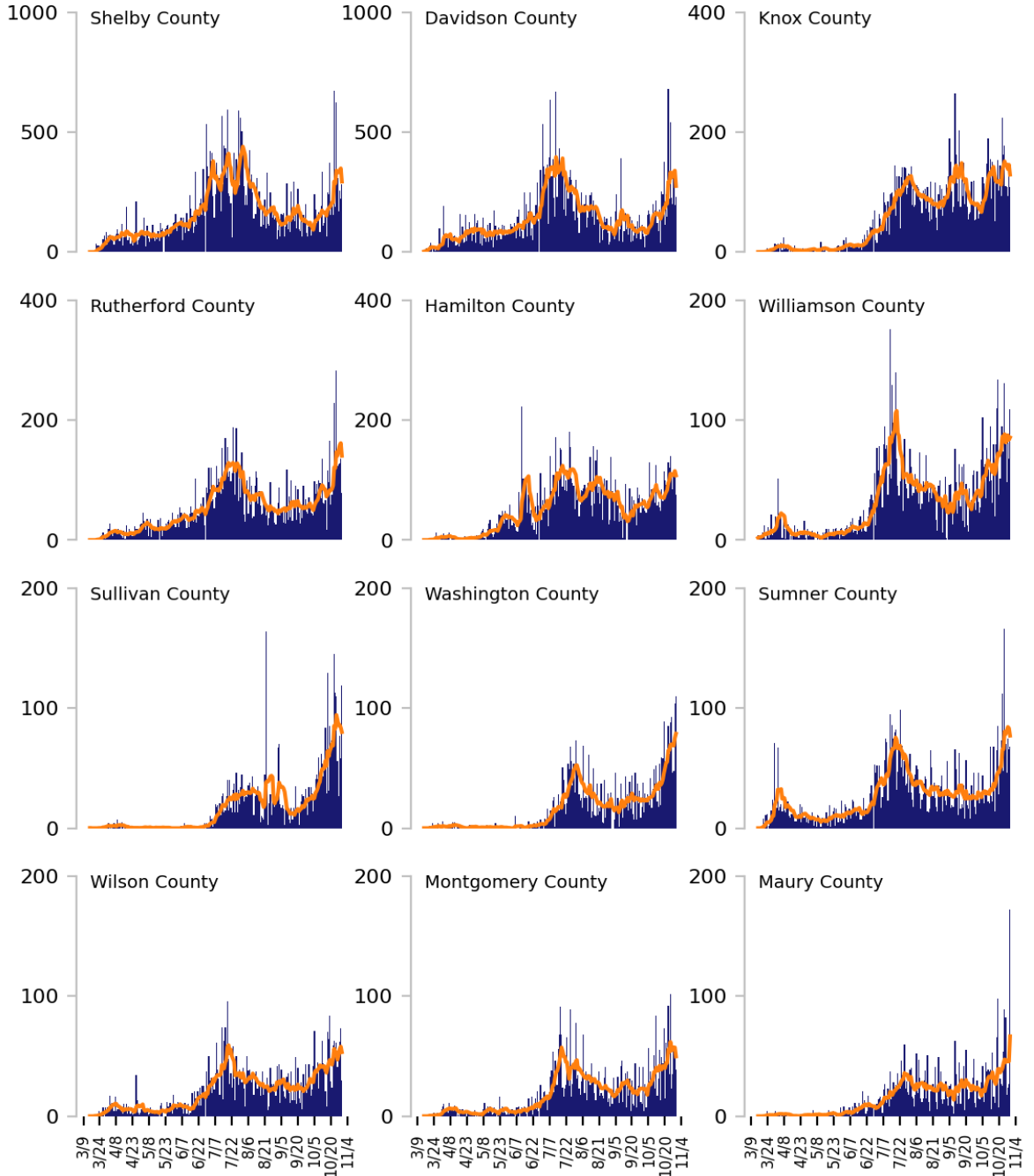**Testing:** CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 10/28/2020.

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
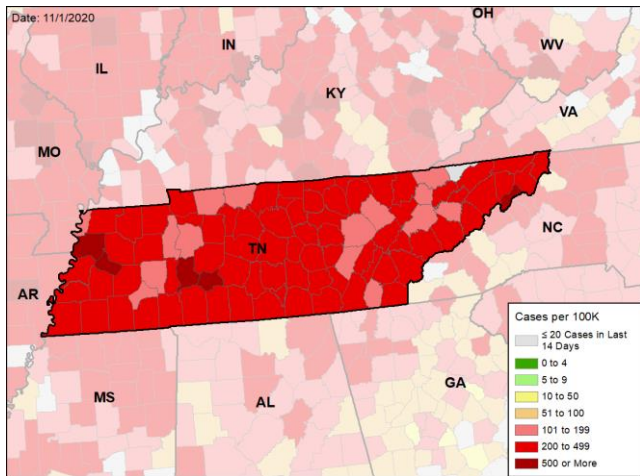
TOTAL DAILY CASES
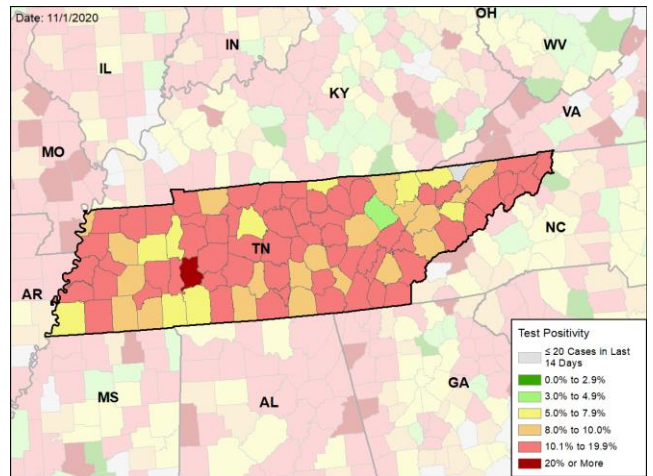
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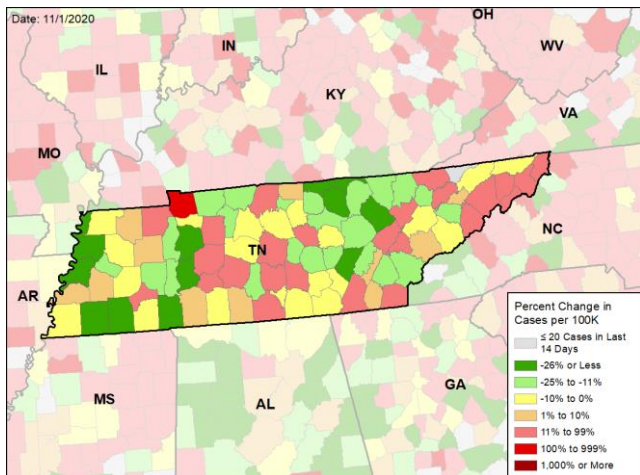## CASE RATES AND VIRAL LAB TEST POSITIVITY
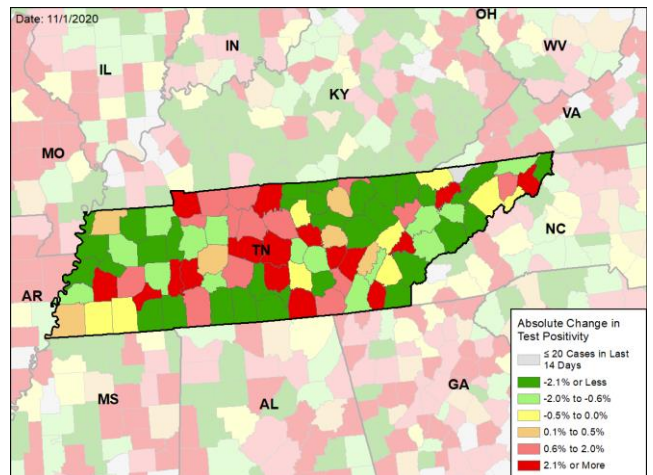
NEW CASES PER 100,000

VIRAL (RT-PCR) LABORATORY TEST POSITIVITY

WEEKLY CHANGE IN NEW CASES PER 100,000

WEEKLY CHANGE IN VIRAL (RT-PCR) LABORATORY TEST POSITIVITY

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 10/30/2020. Previous week is 10/17 - 10/23.
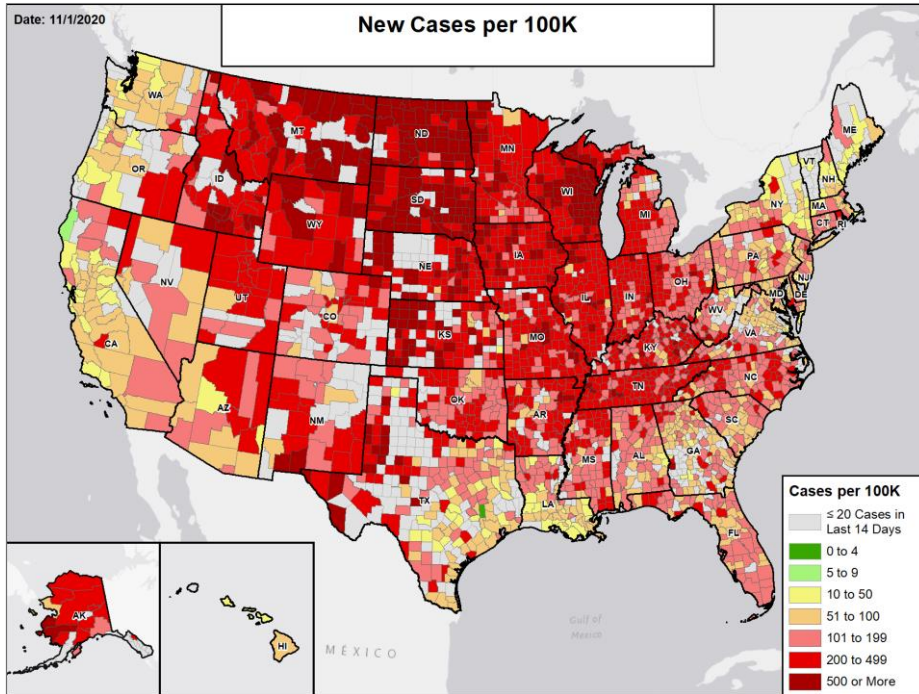**Testing:** CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 10/28/2020. Previous week is 10/15 - 10/21.

National Picture

NEW CASES PER 100,000

Date: 11/1/2020

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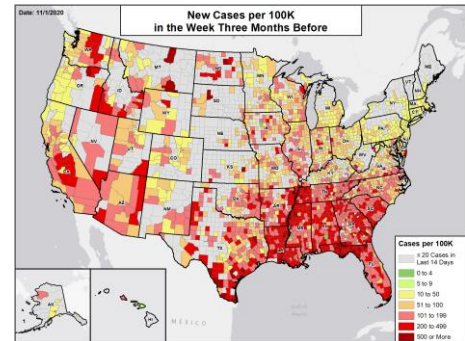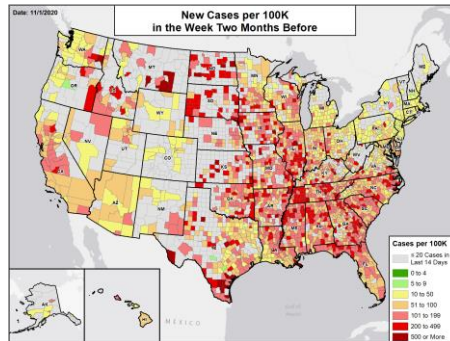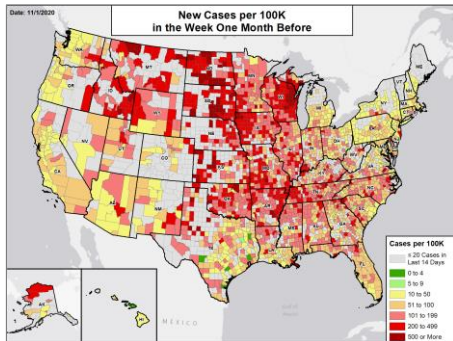
Cases per 100K
- ≤ 20 Cases in Last 14 Days
- 0 to 4
- 5 to 9
- 10 to 50
- 51 to 100
- 101 to 199
- 200 to 499
- 500 or More

NATIONAL RANKING OF NEW CASES PER 100,000

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

NEW CASES PER 100,000 IN THE WEEK:

ONE MONTH BEFORE

New Cases per 100K in the Week One Month Before

TWO MONTHS BEFORE

New Cases per 100K in the Week Two Months Before

THREE MONTHS BEFORE

New Cases per 100K in the Week 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.
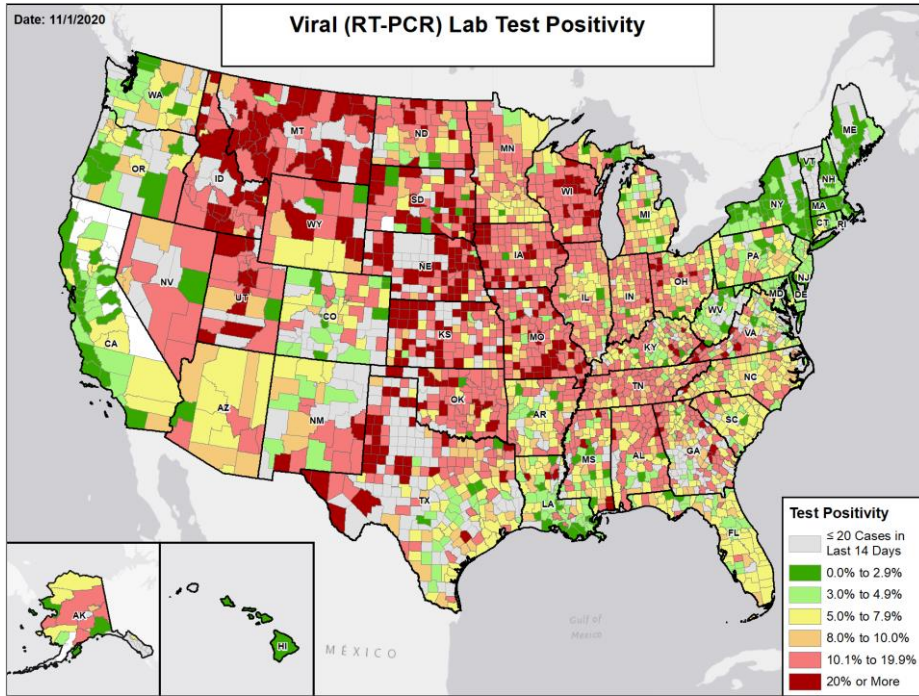
Cases: County-level data from USAFacts through 10/30/2020. The week one month before is 9/26 - 10/2; the week two months before is 8/29 - 9/4; the week three months before is 8/1 - 8/7.

National Picture

VIRAL (RT-PCR) LAB TEST POSITIVITY

Date: 11/1/2020

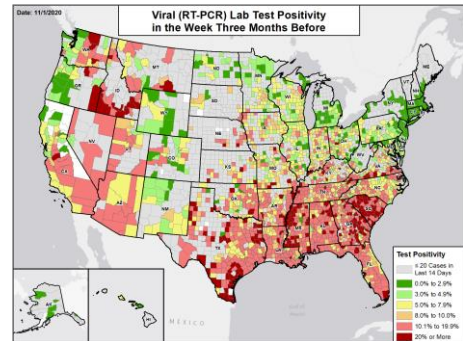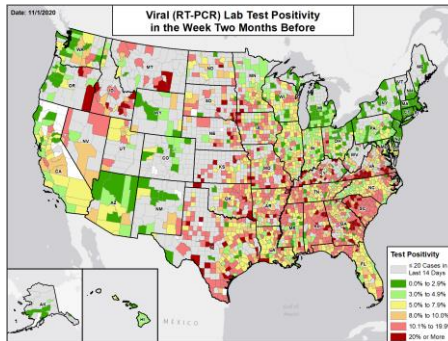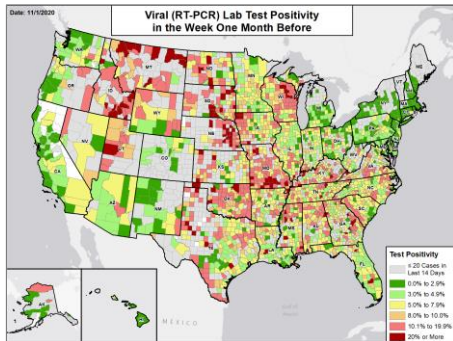**Viral (RT-PCR) Lab Test Positivity**

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

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

ONE MONTH BEFORE

TWO MONTHS BEFORE

THREE MONTHS BEFORE

National Picture

NEW DEATHS PER 100,000

Date: 11/1/2020

New Deaths per 100K

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

NEW DEATHS PER 100,000 IN THE WEEK:
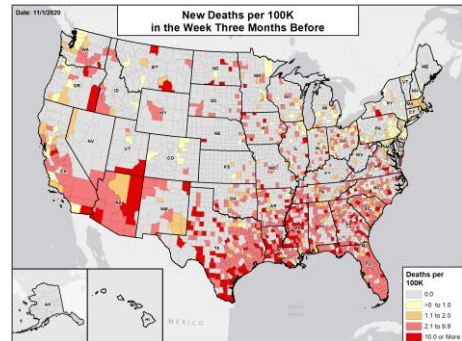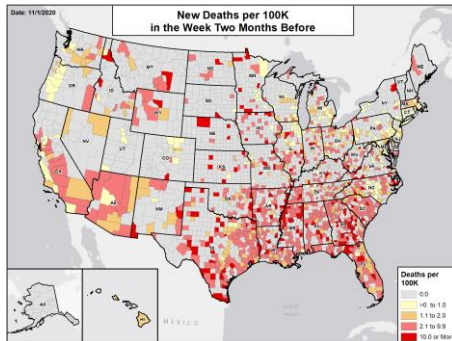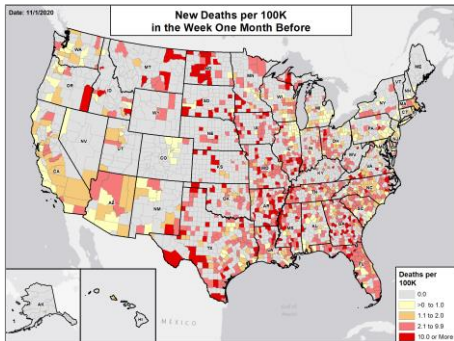
ONE MONTH BEFORE

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.
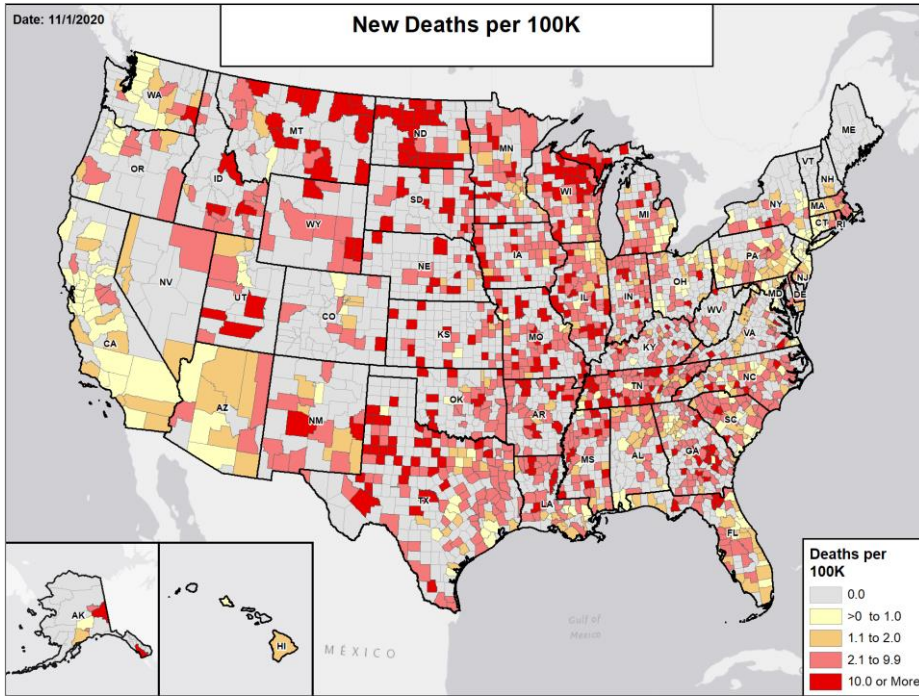
Deaths: County-level data from USAFacts through 10/30/2020. The week one month before is 9/26 - 10/2; the week two months before is 8/29 - 9/4; the week three months before is 8/1 - 8/7.

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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 18:13 EST on 11/01/2020. 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. Last week data are from 10/24 to 10/30; previous week data are from 10/17 to 10/23; the week one month before data are from 9/26 to 10/2.
- **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 10/22 to 10/28; previous week data are from 10/15 to 10/21; the week one month before data are from 9/24 to 9/30. HHS Protect data is recent as of 10:22 EST on 11/01/2020. Testing data are inclusive of everything received and processed by the CELR system as of 19:00 EDT on 10/31/2020.
- **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 18:40 EST on 11/01/2020.
- **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 18:58 EDT on 10/31/2020.
- **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 10/19-10/25, previous week is 10/12-10/18. 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."