

COLORADO

SUMMARY

- As we continue to work with each of you on data quality and data reporting, we will continue to add relevant data to our joint understanding. We greatly appreciate the feedback and we use this to continually improve. This week, we have included the data reported to HHS from your hospitals regarding admissions and next, we will include PPE data reported.
- Colorado is in the red zone for cases, indicating 101 or more new cases per 100,000 population last week, with the 27th highest rate in the country. Colorado is in the yellow zone for test positivity, indicating a rate between 5.0% and 7.9%, with the 32nd highest rate in the country.
- Colorado has seen a continued increase in new cases and an increase in test positivity over the last week.
- Cases remain concentrated near the Front Range urban centers but has extended to additional counties west of these centers and further south. Fremont County had the largest increase in incidence last week, reporting more than half of its cumulative cases since the beginning of the epidemic, with many cases linked to a correctional facility. The following three counties had the highest number of new cases over the last 3 weeks: 1. Denver County, 2. Adams County, and 3. Arapahoe County. These counties represent 46.2% of new cases in Colorado.
- Current hospitalizations have begun to increase more rapidly and are now approximately twice as high as three weeks ago. Deaths have also increased.
- Institutions of higher education (IHE): While IHEs continue to report moderate numbers of cases linked to active outbreaks, mitigation measures have limited broad scale transmission. New reported cases among UC Boulder students are similar in number to the previous week, but lower than four weeks ago.
- 19% of all counties in Colorado have moderate or high levels of community transmission (yellow, orange, or red zones), with none having high levels of community transmission (red zone).
- During the week of Oct 5 - Oct 11, 6% of nursing homes had at least one new resident COVID-19 case, 14% had at least one new staff COVID-19 case, and 2% had at least one new resident COVID-19 death.
- Colorado had 115 new cases per 100,000 population in the last week, compared to a national average of 117 per 100,000.
- Current staff deployed from the federal government as assets to support the state response are: 64 to support operations activities from FEMA; 5 to support operations activities from ASPR; 2 to support epidemiology activities from CDC; and 1 to support operations activities from USCG.
- Between Oct 10 - Oct 16, on average, 64 patients with confirmed COVID-19 and 94 patients with suspected COVID-19 were reported as newly admitted each day to hospitals in Colorado. An average of 92% of hospitals reported either new confirmed or new suspected COVID patients each day during this period; therefore, this may be an underestimate of the actual total number of COVID-related hospitalizations. Underreporting may lead to a lower allocation of critical supplies.

RECOMMENDATIONS

- We have included cases, test positivity, and deaths by month in the back of your packet to show the time sequence in Colorado and the country as a whole. These demonstrate the impact of comprehensive mitigation efforts when implemented effectively and that partial or incomplete mitigation leads to prolonged community spread and increased fatalities.
- We share the concern of the state leaders that the current situation can continue to worsen and is at a critical juncture. Colorado's ability to limit further cases and avoid increases in hospitalizations and deaths will depend on increased observation of social distancing mitigation measures by the community until cases decline. The Governor's guidance on these measures is commended.
- Colorado has had considerable success in limiting morbidity and mortality. State and local leaders should work intensely with communities to ensure a clear and shared message and continue to ask Coloradans to wear masks, physically distance, and avoid gatherings in both public and private spaces, especially indoors. Lack of compliance with these measures will lead to preventable deaths.
- In red and orange counties, both public and private gatherings should be as small as possible and optimally, not extend beyond immediate family.
- Community transmission is frequently occurring in smaller gatherings of family and friends where masking and social distancing recommendations are not followed. Continue to encourage outdoor activities and ensure mask and physical distancing messages for all residents, both in public and private spaces. With weather conditions increasingly forcing activities indoors, recommend increased messaging regarding the need to take these measures, especially given the element of "prevention fatigue."
- Recommendations from previous weeks continue.
- Specific, detailed guidance on community mitigation measures can be found on the [CDC website](#).



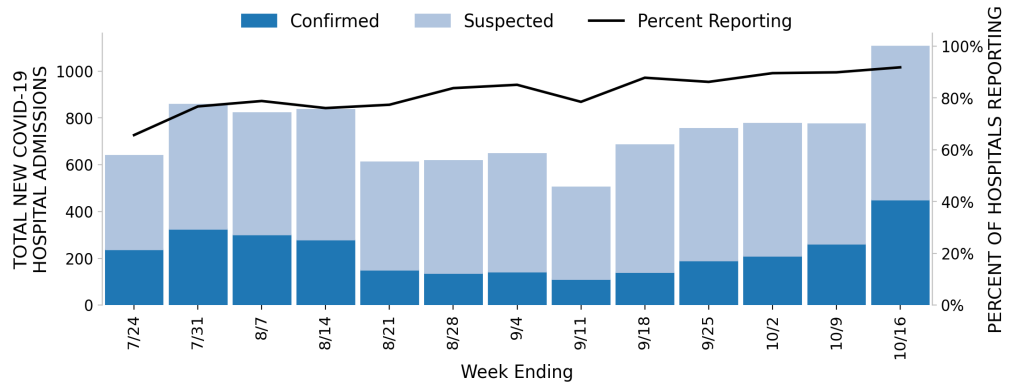


COLORADO

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	STATE, LAST WEEK	STATE, % CHANGE FROM PREVIOUS WEEK	FEMA/HHS REGION, LAST WEEK	UNITED STATES, LAST WEEK
NEW COVID-19 CASES (RATE PER 100,000)	6,616 (115)	+40%	29,893 (244)	383,209 (117)
VIRAL (RT-PCR) LAB TEST POSITIVITY RATE	5.0%	+1.2%*	10.2%	5.4%
TOTAL VIRAL (RT-PCR) LAB TESTS (TESTS PER 100,000)	118,247** (2,053)	+6%**	321,945** (2,626)	7,141,821** (2,176)
COVID-19 DEATHS (RATE PER 100,000)	69 (1.2)	+50%	232 (1.9)	4,931 (1.5)
SNFs WITH ≥1 NEW RESIDENT COVID-19 CASE (≥1 NEW STAFF CASE)	6% (14%)	+1%* (-2%*)	11% (30%)	10% (22%)
SNFs WITH ≥1 NEW RESIDENT COVID-19 DEATH	2%	+2%*	5%	4%

HOSPITAL ADMISSIONS



* 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 10/16/2020; last week is 10/10 - 10/16, previous week is 10/3 - 10/9.

Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 10/14/2020. Last week is 10/8 - 10/14, previous week is 10/1 - 10/7.

SNFs: Skilled nursing facilities. National Healthcare Safety Network. Data are reported separately for cases among residents and staff. Last week is 10/5-10/11, previous week is 9/28-10/4. Facilities that are undergoing reporting quality review are not included in the table, but may be included in other NHSN analyses.

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.



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COVID-19 COUNTY AND METRO ALERTS*

Top 12 shown in table (full lists below)

METRO AREA (CBSA) LAST WEEK

COUNTY LAST WEEK

LOCALITIES IN RED ZONE	<p>0</p> <p>■ (+0)</p>	N/A	<p>0</p> <p>▼ (-2)</p>	N/A
LOCALITIES IN ORANGE ZONE	<p>0</p> <p>■ (+0)</p>	N/A	<p>2</p> <p>▲ (+2)</p>	Yuma Lake
LOCALITIES IN YELLOW ZONE	<p>7</p> <p>▲ (+5)</p>	Denver-Aurora-Lakewood Greeley Cañon City Sterling Breckenridge Fort Morgan Montrose	<p>10</p> <p>▲ (+4)</p>	Denver Adams Arapahoe Weld Fremont Logan Summit Morgan Grand Montrose
Change from previous week's alerts:		▲ Increase	■ Stable	▼ Decrease

* 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 10/16/2020; last week is 10/10 - 10/16, three weeks is 9/26 - 10/16.

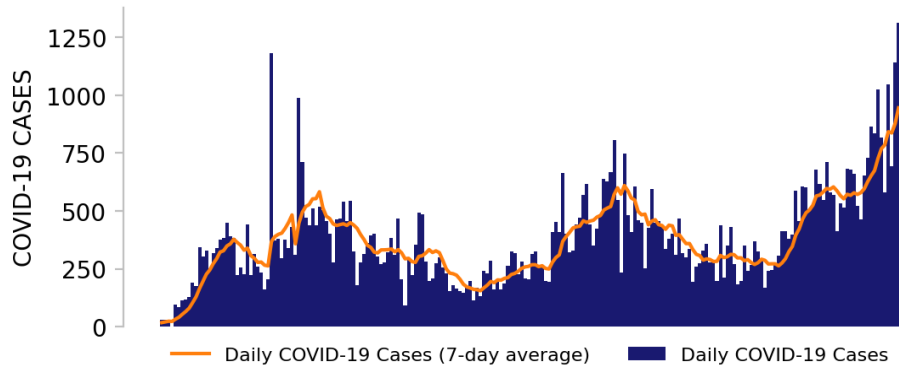
Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 10/14/2020. Last week is 10/8 - 10/14.



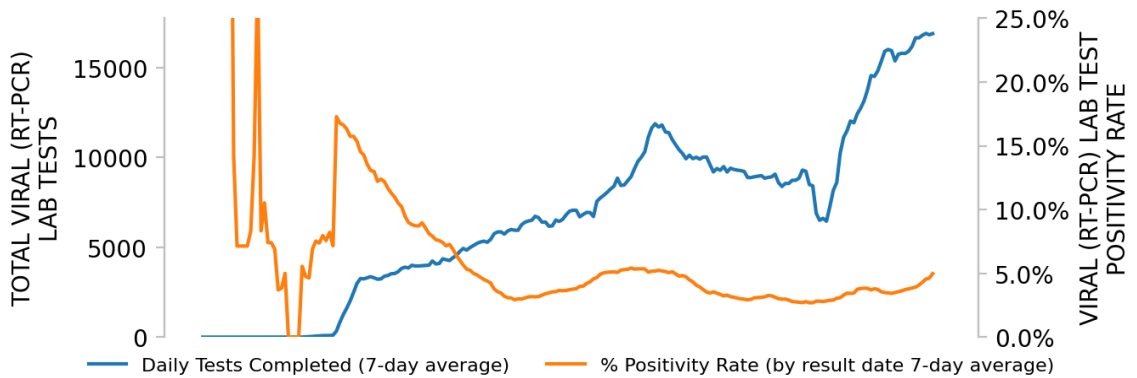
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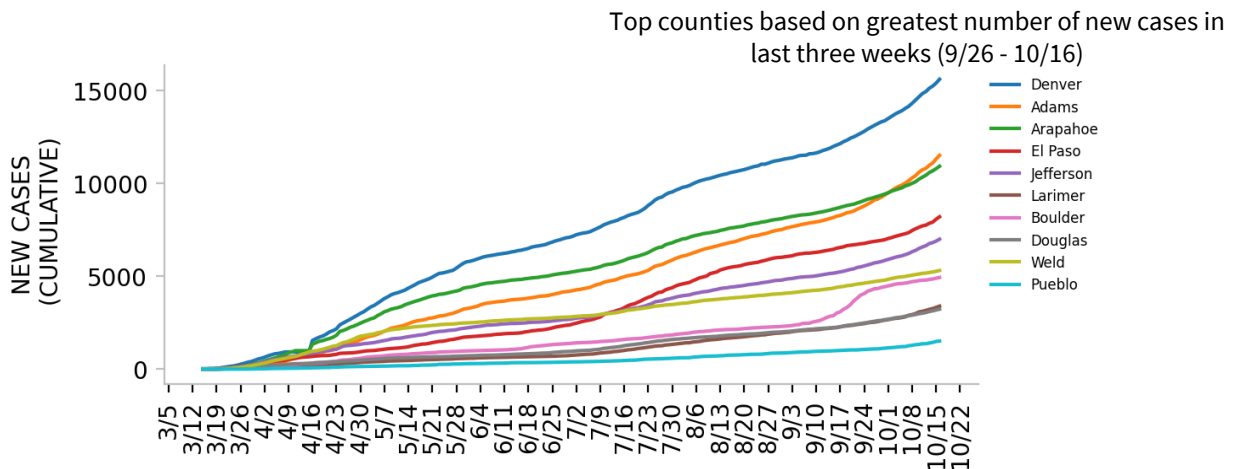
NEW CASES



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 10/16/2020.

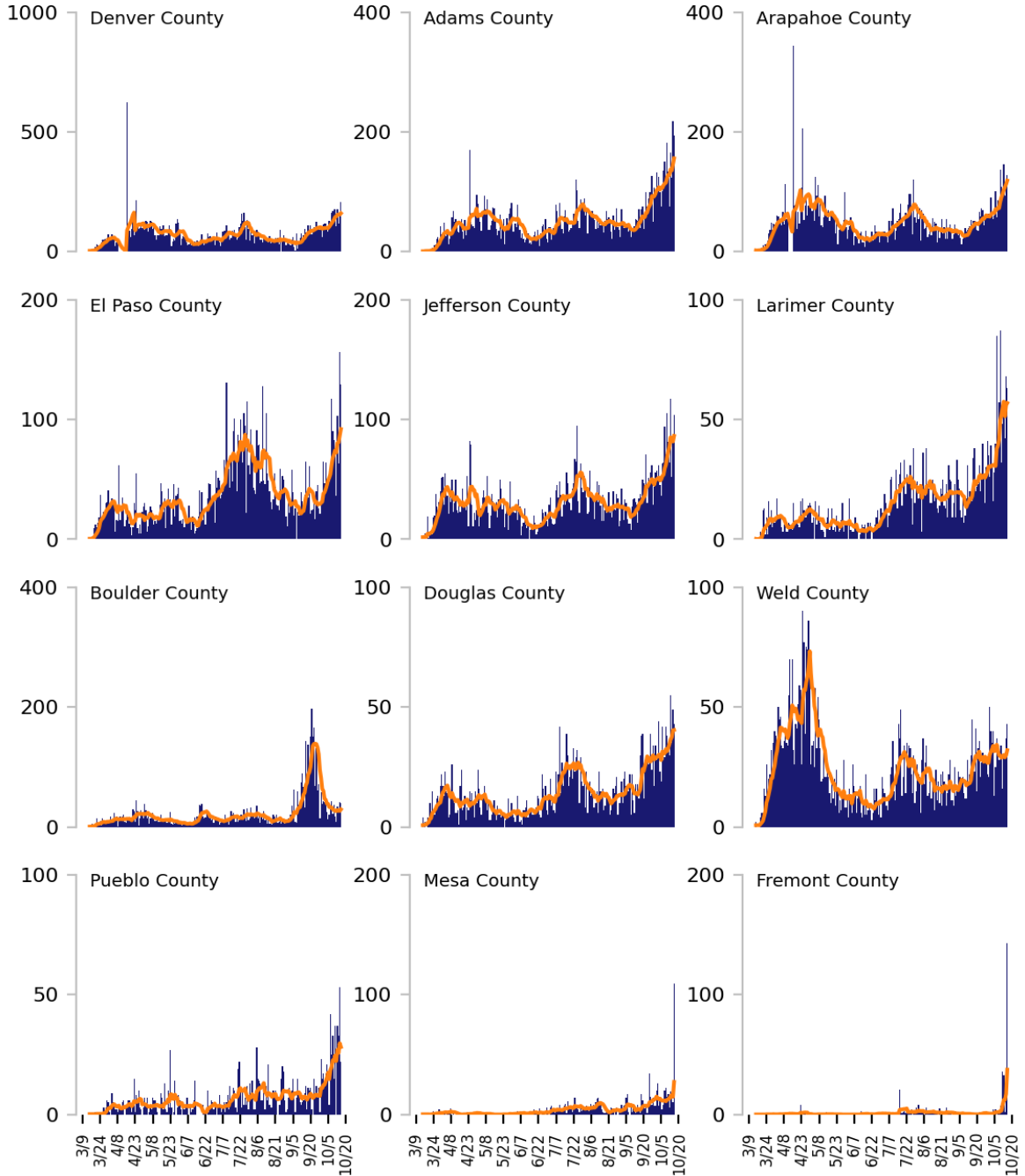
Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 10/14/2020.



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 10/16/2020. Last 3 weeks is 9/26 - 10/16.

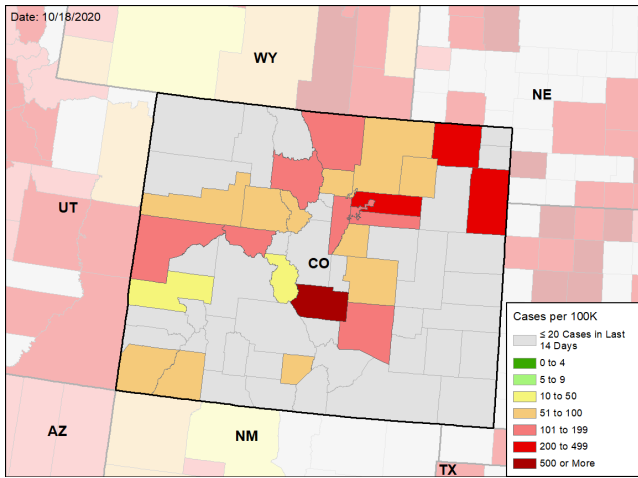


COLORADO

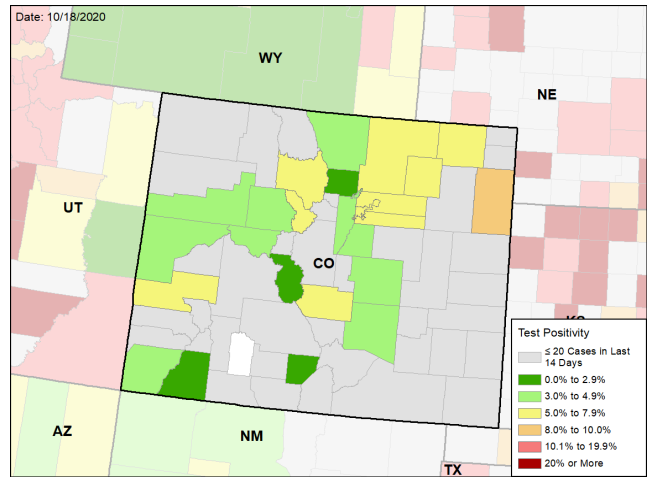
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CASE RATES AND VIRAL LAB TEST POSITIVITY DURING THE LAST WEEK

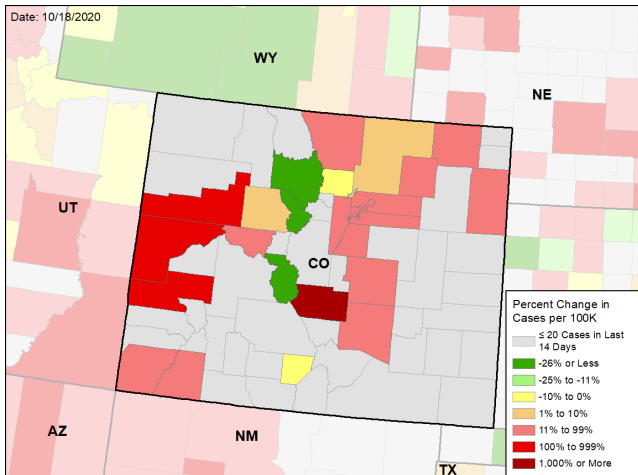
NEW CASES PER 100,000 DURING THE LAST WEEK



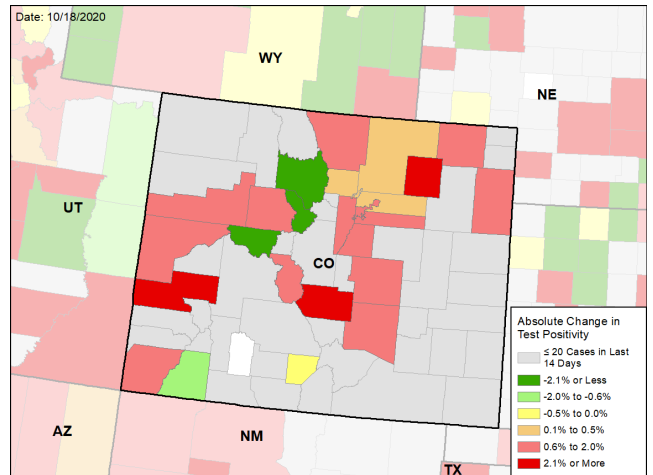
VIRAL (RT-PCR) LABORATORY TEST POSITIVITY DURING THE LAST WEEK



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 10/16/2020. Last week is 10/10 - 10/16, previous week is 10/3 - 10/9.

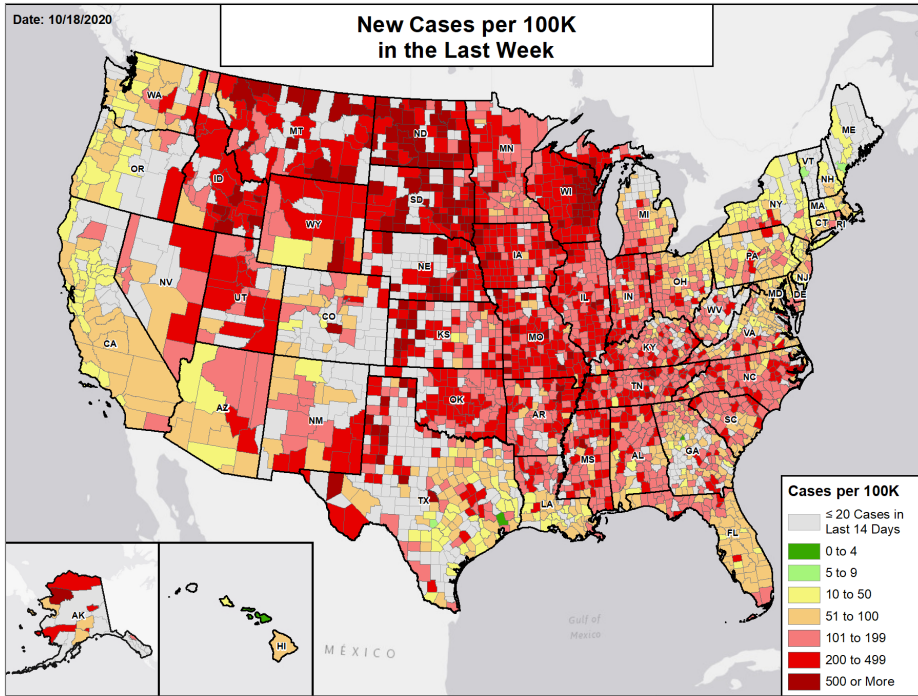
Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data through 10/14/2020. Last week is 10/8 - 10/14, previous week is 10/1 - 10/7.



National Picture

NEW CASES PER 100,000 LAST WEEK

NATIONAL RANKING OF NEW CASES PER 100,000 LAST WEEK



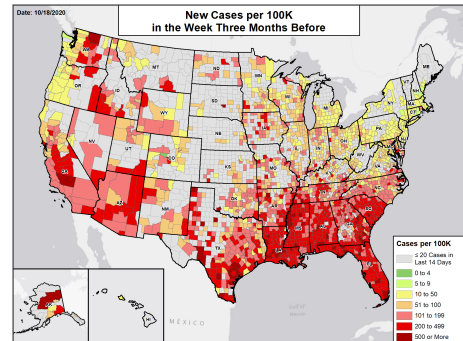
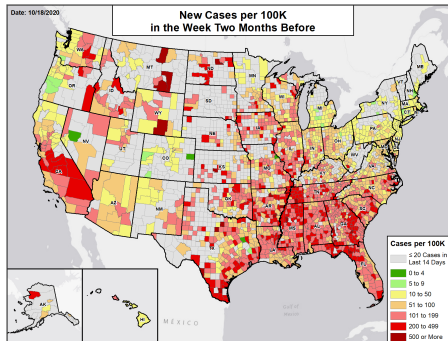
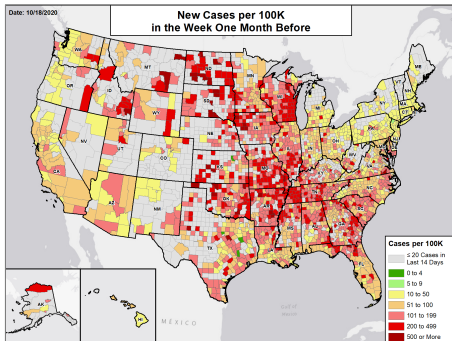
National Rank	State	National Rank	State
1	ND	27	CO
2	SD	28	MI
3	MT	29	TX
4	WI	30	WV
5	NE	31	OH
6	UT	32	DE
7	ID	33	FL
8	IA	34	VA
9	WY	35	GA
10	MO	36	LA
11	OK	37	CT
12	AR	38	PA
13	MS	39	AZ
14	AK	40	MD
15	IN	41	MA
16	TN	42	NJ
17	KS	43	WA
18	IL	44	DC
19	MN	45	OR
20	NM	46	CA
21	KY	47	NY
22	AL	48	NH
23	NC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

NEW CASES 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.

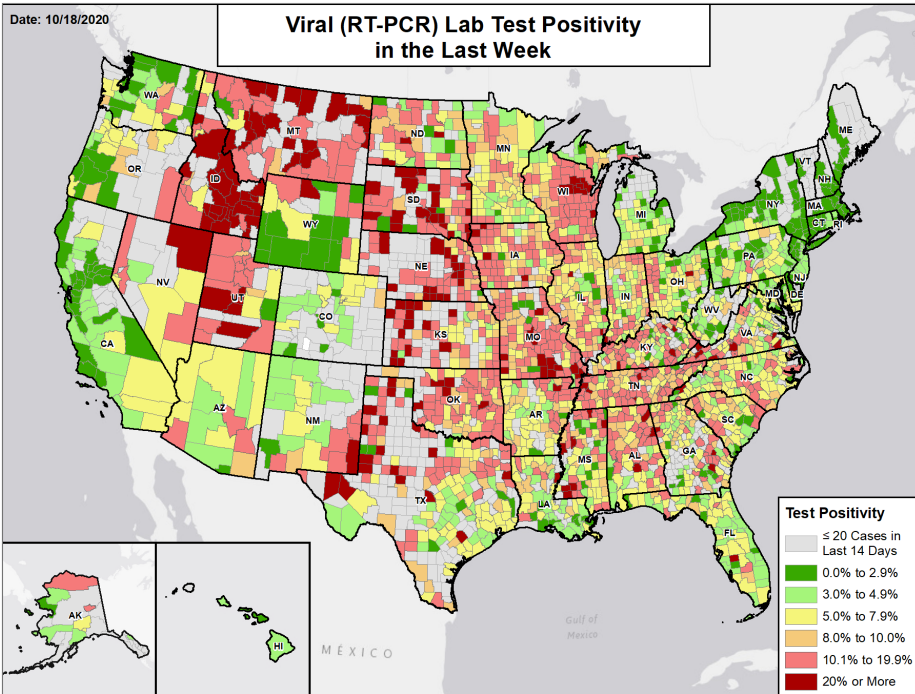
Cases: County-level data from USAFacts through 10/16/2020. Last week is 10/10 - 10/16; the week one month before is 9/12 - 9/18; the week two months before is 8/15 - 8/21; the week three months before is 7/18 - 7/24.



National Picture

VIRAL (RT-PCR) LAB TEST POSITIVITY LAST WEEK

NATIONAL RANKING OF TEST POSITIVITY LAST WEEK



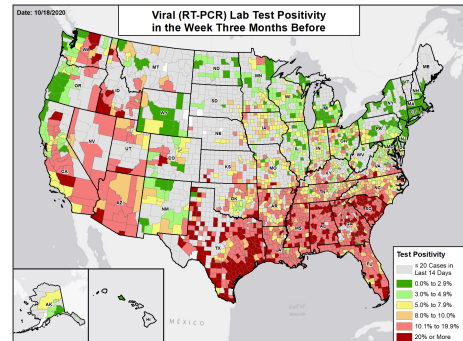
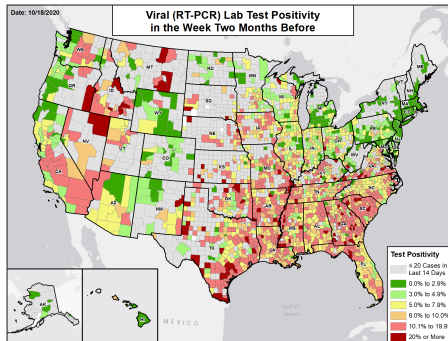
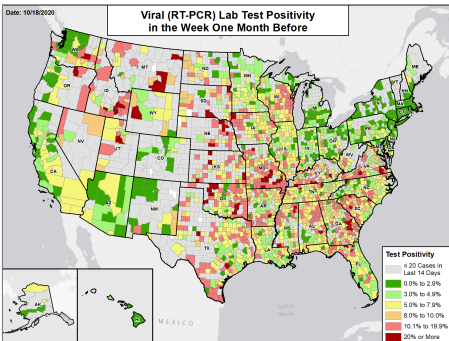
National Rank	State	National Rank	State
1	MT	27	GA
2	ID	28	AK
3	UT	29	AZ
4	SD	30	FL
5	NE	31	MI
6	WI	32	CO
7	OK	33	WY
8	MO	34	LA
9	IA	35	MD
10	KS	36	PA
11	TN	37	WV
12	MS	38	OH
13	AL	39	HI
14	KY	40	NJ
15	ND	41	CA
16	NV	42	WA
17	IN	43	CT
18	TX	44	DE
19	AR	45	NH
20	SC	46	RI
21	MN	47	NY
22	NM	48	MA
23	OR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

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.

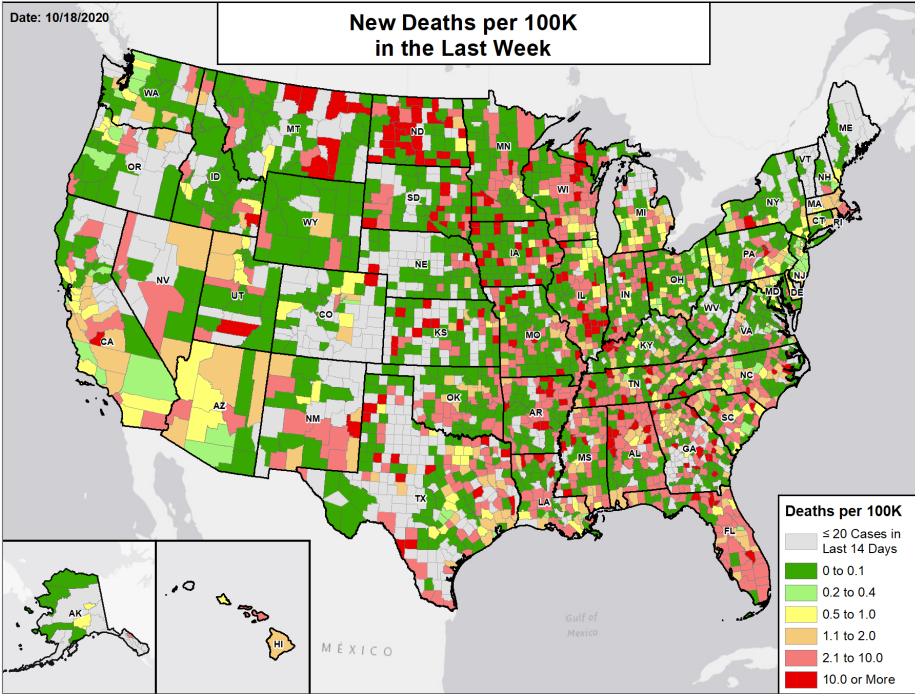
Testing: Combination of CELR (COVID-19 Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs) through 10/14/2020. Last week is 10/8 - 10/14; the week one month before is 9/10 - 9/16; the week two months before is 8/13 - 8/19; the week three months before is 7/16 - 7/22.



National Picture

NEW DEATHS PER 100,000 LAST WEEK

NATIONAL RANKING OF NEW DEATHS PER 100,000 LAST WEEK



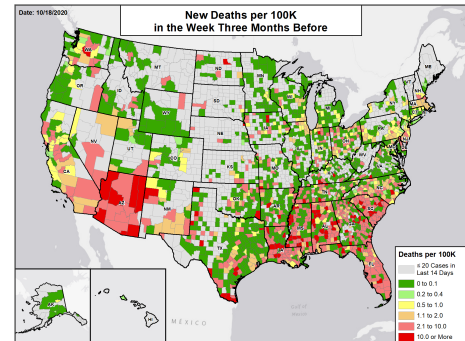
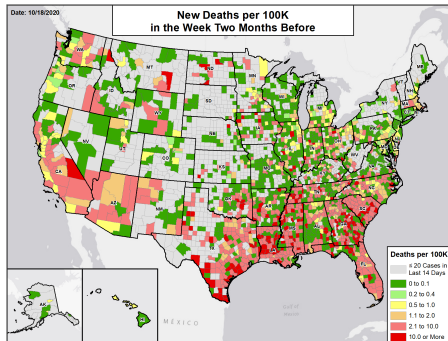
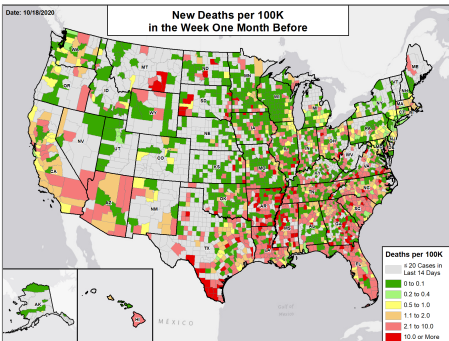
National Rank	State	National Rank	State
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4	KS	30	MI
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6	IA	32	DE
7	MS	33	WV
8	AL	34	CA
9	MT	35	NH
10	MO	36	UT
11	WI	37	DC
12	TN	38	ID
13	RI	39	AZ
14	GA	40	AK
15	IN	41	VA
16	LA	42	MD
17	MA	43	WY
18	IL	44	WA
19	NE	45	OH
20	TX	46	NY
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22	NV	48	OR
23	OK	49	CT
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26	HI		

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 10/16/2020. Last week is 10/10 - 10/16; the week one month before is 9/12 - 9/18; the week two months before is 8/15 - 8/21; the week three months before is 7/18 - 7/24.



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	≤0.1	0.2 – 0.4	0.5 – 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 16:33 EDT on 10/18/2020. 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 10/10 to 10/16; previous week data are from 10/3 to 10/9; the week one month before data are from 9/12 to 9/18.
- 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 10/8 to 10/14; previous week data are from 10/1 to 10/7; the week one month before data are from 9/10 to 9/16. HHS Protect data is recent as of 08:09 EDT on 10/18/2020. Testing data are inclusive of everything received and processed by the CELR system as of 19:00 EDT on 10/17/2020.
- 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 16:54 EDT on 10/18/2020.
- 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 10/5-10/11, previous week is 9/28-10/4. 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.”