

COVID Tabulations: Testing, Case, Hospitalization, and Death Dynamics

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The Menges Group

Strategic Health Policy & Care Coordination Consulting

Introduction and Overview

- This edition summarizes the most recent week's COVID trends at the national, county, and state levels. The pandemic has worsened considerably this past week.
- New deaths were 22% higher in the week of July 8 - 15 versus those occurring from July 1 - 8. The number of persons hospitalized as of July 15 was 22% above the July 8 figure. New cases increased 20% this week relative to the prior week's volume. New administered tests this past week increased by 15% over tests administered the previous week. The rate of tests with a positive result has increased further this past week (to 8.5%).
- We also identify the 20 counties experiencing the sharpest case growth this week relative to the prior week. 15 of these counties are new to the Top 20 this week.
- The state-level table presents the progression of tests, cases, and deaths per 100,000 population as of July 15, along with this week's trends on these metrics.
- 77.2% of the total US population lives in a county where the number of new cases has increased this past week (July 8-15) as compared to the prior week.

Progression of Cases, Tests, Deaths, and Hospitalizations Across the Past Seven Weeks

Timeframe	New Confirmed Cases During Week	Percent Change in New Case Volume over Prior Week	New Tests Conducted During Week	Percent Change in New Test Volume over Prior Week	Number of Persons Hospitalized with COVID at the End of Each Week	Percent Change in Number of Hospitalized Persons at the End of Each Week	New Deaths During Week	Percent Change in New Death Volume over Prior Week	Percentage of Weekly Tests with a Positive Result
May 27 - June 3	152,649		3,041,311		35,444		6,843		5.0%
June 3 - 10	150,286	-1.5%	3,171,227	4.3%	33,476	-5.6%	6,005	-12.2%	4.4%
June 10 - 17	163,301	8.7%	3,447,528	8.7%	30,995	-7.4%	4,680	-22.1%	4.6%
June 17 - 24	219,225	34.2%	3,636,525	5.5%	33,733	8.8%	4,211	-10.0%	6.0%
June 24 - July 1	305,379	39.3%	4,326,304	19.0%	39,458	17.0%	6,179	46.7%	7.0%
July 1 - 8	367,102	20.2%	4,463,797	3.2%	46,669	18.3%	4,135	-33.1%	8.2%
July 8 - 15	439,488	19.7%	5,125,426	14.8%	56,907	21.9%	5,055	22.2%	8.5%

- All the key statistics have increased sharply during the most recent week – cases by 19.7%, tests by 14.8%, number of hospitalized persons by 21.9%, and number of deaths by 22.2%. The percentage of tests with a positive result increased further (to 8.5%) this week.
- Of these figures, only the increased testing volume is encouraging – the pandemic has worsened considerably during the past week for the nation as a whole. The ensuing slides identify geographic areas of particular concern.

20 Counties with the Largest Increase in New Cases, July 8 – 15 versus July 1 - 8

- 5 of the top 20 county hot spots, highlighted in yellow, were also in last week's top 20.
- These 20 counties collectively experienced a 31.3% increase in new cases July 8 – 15 versus the prior week.
- Harris County (TX) experienced the largest case increase relative to the prior week.
- Los Angeles (CA), Miami-Dade (FL), and Maricopa (AZ) were the three counties with the largest raw number of new cases last week with 20,005, 18,343, and 16,355 new cases, respectively.

County	State	Cumulative Cases through July 15	Cumulative Cases per 100,000 Population, as of July 15	New Cases July 1 - 8	New Cases July 8 - 15	Change in Number of New Cases, July 8 - 15 versus July 1 - 8	Percent Change in Case Growth, July 8 - 15 versus July 1 - 8
Harris	Texas	50,370	1,068.67	7,153	10,358	3,205	44.8%
Broward	Florida	34,153	1,748.94	7,626	10,372	2,746	36.0%
Los Angeles	California	143,009	1,424.52	17,497	20,005	2,508	14.3%
Miami-Dade	Florida	72,316	2,661.67	16,013	18,343	2,330	14.6%
Hidalgo	Texas	9,186	1,057.43	2,027	3,177	1,150	56.7%
Cameron	Texas	4,905	1,159.13	721	1,785	1,064	147.6%
San Bernardino	California	21,468	984.73	3,840	4,882	1,042	27.1%
Montgomery	Texas	4,324	711.90	527	1,540	1,013	192.2%
Clark	Nevada	25,611	1,129.87	4,522	5,485	963	21.3%
Palm Beach	Florida	22,786	1,522.34	3,784	4,557	773	20.4%
Madison	Alabama	2,942	788.93	562	1,296	734	130.6%
Milwaukee	Wisconsin	14,807	1,565.68	1,281	1,973	692	54.0%
Anderson	Texas	1,944	3,367.11	112	792	680	607.1%
Webb	Texas	3,373	1,219.22	559	1,210	651	116.5%
Bexar	Texas	21,558	1,075.99	4,221	4,821	600	14.2%
Cook	Illinois	96,662	1,876.85	2,585	3,166	581	22.5%
Oklahoma	Oklahoma	5,591	701.12	1,010	1,552	542	53.7%
Mecklenburg	North Carolina	15,950	1,436.48	1,955	2,461	506	25.9%
Jefferson	Alabama	7,540	1,144.90	1,305	1,799	494	37.9%
Lee	Florida	10,848	1,407.78	2,256	2,724	468	20.7%

State Table 1 of 3: Alabama through Maine

State	Tests per 100,000 Population as of July 15	Percent Change in New Tests, July 8 - 15 versus July 1 - 8	Cases per 100,000 Population as of July 15	Percent Change in New Cases, July 8 - 15 versus July 1 - 8	Deaths per 100,000 Population as of July 15	Percent Change in New Deaths, July 8 - 15 versus July 1 - 8
Alabama	11,035	33.9%	1,205	51.3%	24.7	77.9%
Alaska	21,337	19.4%	267	61.7%	2.1	-100.0%
Arizona	10,111	3.7%	1,805	-7.6%	33.5	89.9%
Arkansas	13,115	10.6%	1,004	24.7%	11.1	7.1%
California	14,662	7.4%	900	4.7%	18.6	22.2%
Colorado	7,119	19.6%	664	40.6%	30.3	280.0%
Connecticut	16,944	11.8%	1,336	-1.5%	122.9	94.7%
Delaware	14,725	-18.7%	1,340	-38.2%	53.5	0.0%
District of Columbia	19,546	66.0%	1,562	38.6%	80.9	-36.4%
Florida	12,739	22.3%	1,405	20.4%	21.0	86.4%
Georgia	10,878	6.3%	1,113	27.5%	28.5	72.8%
Hawaii	6,890	30.1%	90	16.8%	1.5	100.0%
Idaho	7,494	11.3%	705	37.0%	6.2	116.7%
Illinois	16,420	14.7%	1,250	34.1%	58.7	-22.6%
Indiana	8,713	9.9%	812	37.5%	41.4	-35.4%
Iowa	12,276	12.0%	1,158	23.3%	24.6	72.7%
Kansas	8,217	22.1%	726	25.7%	10.6	54.5%
Kentucky	10,278	11.4%	473	40.9%	15.0	-8.1%
Louisiana	21,537	19.2%	1,812	40.2%	74.4	20.8%
Maine	9,517	-4.5%	266	-28.9%	8.5	-20.0%

Green highlighting denotes jurisdictions with a top ten ranking in each measure and salmon highlighting denotes a bottom 10 ranking.



Note that testing data in this table does not depict the number of different persons being tested, but rather the total volume of tests conducted. Some persons have been tested multiple times.

State Table 2 of 3: Maryland through Rhode Island

State	Tests per 100,000 Population as of July 15	Percent Change in New Tests, July 8 - 15 versus July 1 - 8	Cases per 100,000 Population as of July 15	Percent Change in New Cases, July 8 - 15 versus July 1 - 8	Deaths per 100,000 Population as of July 15	Percent Change in New Deaths, July 8 - 15 versus July 1 - 8
Maryland	11,249	27.2%	1,250	39.6%	55.3	-5.7%
Massachusetts	14,345	26.3%	1,630	19.6%	121.4	-22.8%
Michigan	13,697	21.6%	792	30.8%	63.4	4.7%
Minnesota	14,017	28.6%	776	44.6%	27.6	-14.6%
Mississippi	11,991	100.9%	1,296	13.9%	43.3	-3.8%
Missouri	8,439	43.7%	512	45.1%	18.3	31.4%
Montana	11,579	32.4%	201	119.2%	3.2	1,000.0%
Nebraska	11,360	71.0%	1,136	38.7%	15.6	22.2%
Nevada	11,831	3.1%	993	18.8%	20.1	43.2%
New Hampshire	10,084	-8.0%	450	7.3%	29.0	-38.5%
New Jersey	19,616	21.9%	2,007	2.8%	176.0	-38.8%
New Mexico	20,507	9.0%	755	4.8%	26.6	11.1%
New York	24,924	3.5%	2,060	9.3%	167.6	-3.0%
North Carolina	12,249	21.7%	874	27.7%	15.2	58.0%
North Dakota	16,608	24.5%	600	69.2%	12.1	0.0%
Ohio	9,091	19.6%	593	24.8%	26.3	-27.0%
Oklahoma	11,305	8.2%	577	30.1%	10.9	38.9%
Oregon	7,242	-11.3%	310	19.9%	5.9	29.4%
Pennsylvania	7,566	13.8%	800	11.9%	54.8	-8.1%
Rhode Island	16,602	74.3%	1,665	24.2%	93.2	6.7%

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State Table 3 of 3: South Carolina through Wyoming (including US Territories and National Totals)

State	Tests per 100,000 Population as of July 15	Percent Change in New Tests, July 8 - 15 versus July 1 - 8	Cases per 100,000 Population as of July 15	Percent Change in New Cases, July 8 - 15 versus July 1 - 8	Deaths per 100,000 Population as of July 15	Percent Change in New Deaths, July 8 - 15 versus July 1 - 8
South Carolina	10,216	12.8%	1,209	21.3%	19.4	-3.4%
South Dakota	10,574	38.5%	865	-1.4%	12.5	160.0%
Tennessee	16,073	10.3%	989	22.7%	11.3	25.0%
Texas	9,112	13.9%	1,019	22.1%	12.4	55.2%
Utah	13,477	9.2%	974	6.2%	7.3	14.3%
Vermont	12,558	20.8%	211	34.8%	9.0	0.0%
Virginia	9,900	34.8%	861	47.5%	23.3	-26.9%
Washington	9,432	5.7%	591	21.3%	19.5	65.5%
West Virginia	12,159	16.7%	254	16.8%	5.5	50.0%
Wisconsin	12,512	27.0%	728	39.4%	14.3	-29.2%
Wyoming	7,415	23.7%	343	8.4%	3.8	0.0%
50 States + DC	12,882	14.9%	1,064	19.7%	41.9	22.2%
Territories						
American Samoa	1,479	-100.0%	-	0.0%	-	0.0%
Guam	10,585	-28.4%	761	-83.3%	3.6	0.0%
Northern Mariana Islands	18,703	-100.0%	57	100.0%	3.5	0.0%
Puerto Rico	6,697	35.3%	16	-46.3%	-	0.0%
Virgin Islands	4,670	246.2%	238	94.4%	5.7	0.0%
Territories Subtotal	6,945	-28.8%	59	-28.3%	0.4	0.0%
United States and Territories	12,802	14.8%	1,052	19.7%	41.4	22.2%

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State-Level Observations

- New cases increased in 46 states and 2 territories this week relative to the prior week.
- New deaths increased in 30 states this week relative to the prior week.
- Testing volume increased in 47 states and 2 territories this week relative to the prior week.

Distribution of US Counties by New Confirmed Cases, July 8 – 15 Compared to July 1 - 8

- 77.2% of the total US population lives in a county that reported an increase in new cases July 8 – 15 versus the previous week.
- These 2,041 counties account for 76.8% of all cases and 77.2% of all deaths, as of July 15.

	Counties with No Confirmed Cases Through July 15	Counties with Fewer New Cases July 8 - 15 than July 1 - 8	Counties with More New Cases July 8 - 15 than July 1 - 8	Counties with the Same Number of New Cases July 8 - 15 and July 1 - 8
Number of Counties	83	795	2,041	281
% of All Counties	2.6%	24.8%	63.8%	8.8%
% Total US Population	0.1%	21.3%	77.2%	1.4%
% Cumulative Cases as of July 15	0.0%	22.7%	76.8%	0.5%
% Cumulative Deaths as of July 15	0.0%	22.1%	77.2%	0.7%

5 Slide Series Overview

Our 5 Slide Series is a monthly publication whereby we briefly discuss/address a selected topic outside the confines of our client engagements. The Menges Group has a variety of datasets that we use to support our 5 Slide Series and client projects.

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