

State Level Comparisons of the First and Second Six Months of the COVID Pandemic; Updated Vaccine Counts

5 Slide Series, Volume 92-d

January 29, 2021

The Menges Group

Strategic Health Policy & Care Coordination Consulting

Introduction and Overview

- This edition of our COVID 5 Slide Series compares the first 6 months (January 21, 2020 – July 25, 2020) of the pandemic with the second 6 months (July 26, 2020 – January 27, 2021) through tabulation of case, death, and mortality rates at a state level.
- The United States reported a 410% increase in cases and a 91% increase in COVID deaths during the second 6 months of the COVID pandemic compared to the first six months.
- The COVID mortality rate (calculated by dividing the total number of COVID deaths by the total number of COVID cases) decreased from 3.5% to 1.3%.
 - It is important to note that the increase in cases is at least partially attributable to increased test availability during the second 6 months of the pandemic.
- As of January 27, more than 24.5 million doses of the COVID vaccine have been administered. There was a 53.6% increase in administered doses of the COVID Vaccine during this past week (January 21 – 27) versus the previous week (January 14 – 20).

COVID Cases and Deaths per 100,000 Population during the First and Second 6 Months of the Pandemic, Alabama through Kansas

State	COVID Cases per 100,000 Population, First 6 Months	COVID Cases per 100,000 Population, Second 6 Months	Rank, COVID Cases per 100,000 Population, First 6 Months	Rank, COVID Cases per 100,000 Population, Second 6 Months	COVID Deaths per 100,000 Population, First 6 Months	COVID Deaths per 100,000 Population, Second 6 Months	Rank, COVID Deaths per 100,000 Population, First 6 Months	Rank, COVID Deaths per 100,000 Population, Second 6 Months
Alabama	1,593	7,566	10	17	29.7	116.6	19	8
Alaska	392	6,897	45	26	2.5	32.0	50	49
Arizona	2,199	7,976	2	16	45.2	128.9	14	5
Arkansas	1,259	8,317	22	13	13.2	143.9	39	4
California	1,147	7,085	24	25	21.3	77.2	28	31
Colorado	761	6,053	36	34	31.2	66.9	17	36
Connecticut	1,368	5,569	15	40	123.8	71.9	3	33
Delaware	1,456	6,332	12	31	59.5	50.6	10	40
District of Columbia	1,660	3,422	9	46	82.3	44.5	6	43
Florida	1,930	5,874	5	36	26.9	93.4	24	23
Georgia	1,425	6,692	13	29	32.2	92.3	16	25
Hawaii	113	1,679	51	50	1.8	26.6	51	50
Idaho	1,003	8,027	26	15	8.4	87.6	45	27
Illinois	1,355	7,443	17	19	59.9	105.4	9	17
Indiana	936	8,277	29	14	43.0	103.2	15	18
Iowa	1,328	8,692	19	8	26.2	116.4	25	9
Kansas	874	8,581	33	9	11.4	116.2	41	10

COVID Cases and Deaths per 100,000 Population during the First and Second 6 Months of the Pandemic, Kentucky through North Carolina

State	COVID Cases per 100,000 Population, First 6 Months	COVID Cases per 100,000 Population, Second 6 Months	Rank, COVID Cases per 100,000 Population, First 6 Months	Rank, COVID Cases per 100,000 Population, Second 6 Months	COVID Deaths per 100,000 Population, First 6 Months	COVID Deaths per 100,000 Population, Second 6 Months	Rank, COVID Deaths per 100,000 Population, First 6 Months	Rank, COVID Deaths per 100,000 Population, Second 6 Months
Kentucky	613	7,374	42	20	16.0	69.1	34	34
Louisiana	2,234	6,207	1	33	79.9	107.0	7	15
Maine	282	2,558	49	49	8.9	33.0	43	48
Maryland	1,383	4,352	14	44	56.8	58.9	11	39
Massachusetts	1,672	5,720	8	37	123.5	84.1	4	29
Michigan	858	5,179	35	41	64.1	89.1	8	26
Minnesota	892	7,218	31	23	28.6	81.2	21	30
Mississippi	1,717	7,311	7	21	49.7	149.1	13	3
Missouri	683	7,183	41	24	19.6	94.8	30	22
Montana	305	8,361	48	12	4.3	108.2	49	13
Nebraska	1,262	8,507	21	10	16.6	86.5	33	28
Nevada	1,363	7,534	16	18	23.8	110.6	27	11
New Hampshire	472	4,203	43	45	30.1	43.9	18	44
New Jersey	2,035	5,581	4	38	177.6	61.4	1	38
New Mexico	896	7,261	30	22	28.9	123.7	20	6
New York	2,096	4,521	3	43	168.5	49.0	2	41
North Carolina	1,061	5,952	25	35	17.2	68.2	32	35

COVID Cases and Deaths per 100,000 Population during the First and Second 6 Months of the Pandemic, North Dakota through Wyoming, Including US Totals

State	COVID Cases per 100,000 Population, First 6 Months	COVID Cases per 100,000 Population, Second 6 Months	Rank, COVID Cases per 100,000 Population, First 6 Months	Rank, COVID Cases per 100,000 Population, Second 6 Months	COVID Deaths per 100,000 Population, First 6 Months	COVID Deaths per 100,000 Population, Second 6 Months	Rank, COVID Deaths per 100,000 Population, First 6 Months	Rank, COVID Deaths per 100,000 Population, Second 6 Months
North Dakota	753	12,000	38	1	13.5	175.6	38	2
Ohio	712	6,802	39	27	28.2	65.3	23	37
Oklahoma	760	8,821	37	7	12.5	73.1	40	32
Oregon	391	2,930	46	48	6.8	39.1	46	46
Pennsylvania	868	5,570	34	39	56.0	108.9	12	12
Rhode Island	1,720	8,947	6	6	94.6	107.0	5	16
South Carolina	1,554	6,744	11	28	28.5	101.2	22	20
South Dakota	939	11,225	28	2	13.8	182.8	37	1
Tennessee	1,295	8,984	20	5	14.0	121.2	36	7
Texas	1,351	6,619	18	30	17.3	107.0	31	14
Utah	1,174	9,453	23	3	8.7	41.9	44	45
Vermont	224	1,600	50	51	9.0	18.6	42	51
Virginia	980	4,744	27	42	24.3	48.7	26	42
Washington	708	3,358	40	47	20.9	35.5	29	47
West Virginia	325	6,247	47	32	5.7	103.2	47	19
Wisconsin	889	9,169	32	4	15.5	92.8	35	24
Wyoming	423	8,453	44	11	4.3	98.7	48	21
United States	1,254	6,398			44.1	84.5		

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Findings

- As of January 27, the United States has reported more than 25 million COVID cases and 427,000 COVID-attributed deaths.
- Many states have had a very different experience in the second six months than occurred during the first six months.
 - None of the top 5 states in cases per 100,000 during the first 6 months (LA, AZ, NY, NJ, and FL) ranked in the top 15 again during the second 6 months (averaging a rank of 33rd).
 - Similarly, none of the top 5 states in deaths per population during the first six months (NJ, NY, CT, MA, RI) ranked in the top 15 during the second six months (averaging a rank of 31st).
- The top five states in cases per population across the past six months were ND, SD, UT, WI, and TN.
- The top 5 states in deaths per population across the past six months were SD, ND, MS, AR, and AZ.
- Montana, Wyoming, and West Virginia had the largest percentage increase in both cases and deaths in the second 6 months of the pandemic.

COVID Mortality Rate during the First and Second 6 Months of the Pandemic, Alabama through North Carolina

State	COVID Mortality Rate, First 6 Months	Rank, COVID Mortality Rate, First 6 Months	COVID Mortality Rate, Second 6 Months	Rank, COVID Mortality Rate, Second 6 Months
Alabama	1.86%	29	1.54%	13
Alaska	0.63%	51	0.46%	50
Arizona	2.05%	27	1.62%	10
Arkansas	1.05%	47	1.73%	3
California	1.86%	30	1.09%	39
Colorado	4.09%	13	1.11%	36
Connecticut	9.05%	1	1.29%	28
Delaware	4.08%	14	0.80%	49
District of Columbia	4.96%	9	1.30%	26
Florida	1.39%	42	1.59%	11
Georgia	2.26%	26	1.38%	19
Hawaii	1.57%	39	1.58%	12
Idaho	0.84%	49	1.09%	38
Illinois	4.42%	11	1.42%	18
Indiana	4.59%	10	1.25%	30
Iowa	1.97%	28	1.34%	23
Kansas	1.31%	44	1.35%	21

State	COVID Mortality Rate, First 6 Months	Rank, COVID Mortality Rate, First 6 Months	COVID Mortality Rate, Second 6 Months	Rank, COVID Mortality Rate, Second 6 Months
Kentucky	2.62%	24	0.94%	47
Louisiana	3.58%	17	1.72%	4
Maine	3.14%	20	1.29%	29
Maryland	4.11%	12	1.35%	20
Massachusetts	7.38%	5	1.47%	15
Michigan	7.47%	4	1.72%	5
Minnesota	3.20%	19	1.13%	35
Mississippi	2.90%	22	2.04%	1
Missouri	2.88%	23	1.32%	25
Montana	1.41%	41	1.29%	27
Nebraska	1.32%	43	1.02%	44
Nevada	1.75%	34	1.47%	16
New Hampshire	6.38%	7	1.04%	42
New Jersey	8.73%	2	1.10%	37
New Mexico	3.23%	18	1.70%	6
New York	8.04%	3	1.08%	40
North Carolina	1.62%	38	1.15%	34

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COVID Mortality Rate during the First and Second 6 Months of the Pandemic, North Dakota through Wyoming, Including US Totals and Findings

State	COVID Mortality Rate, First 6 Months	Rank, COVID Mortality Rate, First 6 Months	COVID Mortality Rate, Second 6 Months	Rank, COVID Mortality Rate, Second 6 Months
North Dakota	1.79%	32	1.46%	17
Ohio	3.96%	16	0.96%	46
Oklahoma	1.65%	37	0.83%	48
Oregon	1.73%	36	1.34%	24
Pennsylvania	6.45%	6	1.95%	2
Rhode Island	5.50%	8	1.20%	31
South Carolina	1.83%	31	1.50%	14
South Dakota	1.47%	40	1.63%	8
Tennessee	1.08%	46	1.35%	22
Texas	1.28%	45	1.62%	9
Utah	0.74%	50	0.44%	51
Vermont	4.01%	15	1.16%	33
Virginia	2.48%	25	1.03%	43
Washington	2.95%	21	1.06%	41
West Virginia	1.77%	33	1.65%	7
Wisconsin	1.74%	35	1.01%	45
Wyoming	1.02%	48	1.17%	32
United States	3.52%		1.32%	

- The national COVID mortality rate decreased from 3.52% during the first 6 months to 1.32% during the second 6 months.
- If the mortality rate had remained at 3.52%, the US would have experienced approximately 467,178 more deaths to date, bringing the national death count to 894,324.

Trends in Vaccine Distribution for Alabama through Kansas, as of January 27, 2021

State	Total Doses Administered, as of Jan 27	Total Doses Administered Jan 14 - 20	Total Doses Administered Jan 21 - 27	Percent Increase in Doses Administered Jan 21 - 27 vs. Jan 14 - 20	Doses Administered per 100,000 Population	People with 1+ Doses per 100,000 Population	People with 2 Doses Per 100,000 Population	Percent of Population with One or More Doses, as of Jan 27	Ranking, Percent of Population with One or More Doses, as of Jan 27
Alabama	278,993	55,160	139,793	153.4%	5,690	4,922	763	4.9%	49
Alaska	105,858	29,613	37,565	26.9%	14,470	11,711	2,740	11.7%	1
Arizona	487,149	127,142	205,262	61.4%	6,693	5,672	1,016	5.7%	40
Arkansas	252,824	78,458	79,512	1.3%	8,378	6,940	1,356	6.9%	14
California	2,746,876	640,840	1,214,547	89.5%	6,952	5,774	1,161	5.8%	39
Colorado	495,706	100,773	155,268	54.1%	8,608	6,844	1,713	6.8%	15
Connecticut	381,160	81,265	138,020	69.8%	10,691	8,844	1,667	8.8%	3
Delaware	82,289	17,227	36,649	112.7%	8,451	7,082	1,347	7.1%	10
District of Columbia	70,839	18,684	19,106	2.3%	10,037	7,878	2,150	7.9%	6
Florida	1,707,251	534,577	467,276	-12.6%	7,949	6,974	953	7.0%	11
Georgia	764,211	198,292	367,163	85.2%	7,198	6,209	841	6.2%	28
Hawaii	103,944	35,339	32,000	-9.4%	7,341	5,943	1,399	5.9%	33
Idaho	102,800	30,395	33,533	10.3%	5,752	4,777	936	4.8%	51
Illinois	823,325	174,067	283,399	62.8%	6,497	5,079	1,279	5.1%	48
Indiana	552,144	145,051	195,759	35.0%	8,202	6,749	1,450	6.7%	18
Iowa	212,497	37,757	62,647	65.9%	6,735	5,367	1,283	5.4%	46
Kansas	190,301	37,055	67,596	82.4%	6,532	5,407	1,079	5.4%	45

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Trends in Vaccine Distribution for Kentucky through North Carolina, as of January 27, 2021

State	Total Doses Administered, as of Jan 27	Total Doses Administered Jan 14 - 20	Total Doses Administered Jan 21 - 27	Percent Increase in Doses Administered Jan 21 - 27 vs. Jan 14 - 20	Doses Administered per 100,000 Population	People with 1+ Doses per 100,000 Population	People with 2 Doses Per 100,000 Population	Percent of Population with One or More Doses, as of Jan 27	Ranking, Percent of Population with One or More Doses, as of Jan 27
Kentucky	342,200	81,510	118,254	45.1%	7,659	6,650	966	6.7%	19
Louisiana	375,895	108,214	111,495	3.0%	8,086	6,961	1,110	7.0%	12
Maine	115,191	18,919	39,024	106.3%	8,569	6,612	1,854	6.6%	20
Maryland	412,206	80,090	154,060	92.4%	6,818	5,880	931	5.9%	36
Massachusetts	490,332	113,047	159,842	41.4%	7,114	5,891	1,213	5.9%	34
Michigan	814,416	217,088	305,809	40.9%	8,155	6,600	1,439	6.6%	21
Minnesota	403,640	87,193	151,092	73.3%	7,157	5,597	1,547	5.6%	42
Mississippi	201,247	61,297	78,661	28.3%	6,762	6,100	654	6.1%	30
Missouri	382,552	82,692	138,076	67.0%	6,233	4,804	1,398	4.8%	50
Montana	86,213	13,157	28,993	120.4%	8,067	6,365	1,698	6.4%	25
Nebraska	150,019	26,584	43,736	64.5%	7,755	6,036	1,674	6.0%	31
Nevada	194,942	45,480	87,809	93.1%	6,329	5,437	855	5.4%	43
New Hampshire	110,451	20,200	35,033	73.4%	8,123	6,518	1,602	6.5%	23
New Jersey	648,215	169,238	215,995	27.6%	7,298	6,284	993	6.3%	26
New Mexico	224,692	61,447	81,390	32.5%	10,716	8,597	1,987	8.6%	4
New York	1,630,504	414,017	584,014	41.1%	8,382	6,788	1,227	6.8%	16
North Carolina	849,801	160,542	422,321	163.1%	8,103	6,946	1,149	6.9%	13

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Trends in Vaccine Distribution for North Dakota through Wyoming, Including US Totals, as of January 27, 2021

State	Total Doses Administered, as of Jan 27	Total Doses Administered Jan 14 - 20	Total Doses Administered Jan 21 - 27	Percent Increase in Doses Administered Jan 21 - 27 vs. Jan 14 - 20	Doses Administered per 100,000 Population	People with 1+ Doses per 100,000 Population	People with 2 Doses Per 100,000 Population	Percent of Population with One or More Doses, as of Jan 27	Ranking, Percent of Population with One or More Doses, as of Jan 27
North Dakota	80,051	16,929	22,394	32.3%	10,505	7,895	2,394	7.9%	5
Ohio	789,869	158,163	302,388	91.2%	6,757	5,846	907	5.8%	37
Oklahoma	363,253	79,281	111,569	40.7%	9,180	7,795	1,326	7.8%	7
Oregon	340,383	101,853	123,455	21.2%	8,070	6,770	1,272	6.8%	17
Pennsylvania	856,371	188,716	287,711	52.5%	6,689	5,434	1,244	5.4%	44
Rhode Island	80,138	14,589	23,521	61.2%	7,565	5,810	1,752	5.8%	38
South Carolina	359,949	92,721	167,341	80.5%	6,991	5,883	1,072	5.9%	35
South Dakota	91,776	11,806	29,258	147.8%	10,374	7,593	2,774	7.6%	8
Tennessee	510,050	93,821	151,516	61.5%	7,469	5,648	1,803	5.6%	41
Texas	2,107,005	493,704	635,259	28.7%	7,267	5,972	1,289	6.0%	32
Utah	239,807	77,756	58,015	-25.4%	7,480	6,274	938	6.3%	27
Vermont	58,871	11,243	18,057	60.6%	9,435	7,432	1,990	7.4%	9
Virginia	668,401	125,530	325,035	158.9%	7,831	6,478	1,050	6.5%	24
Washington	571,135	138,527	224,370	62.0%	7,500	6,153	1,205	6.2%	29
West Virginia	224,604	47,912	65,983	37.7%	12,533	9,695	2,837	9.7%	2
Wisconsin	361,917	85,239	139,425	63.6%	6,216	5,193	988	5.2%	47
Wyoming	43,425	11,515	14,116	22.6%	7,503	6,559	936	6.6%	22
United States	24,537,688	5,851,715	8,990,112	53.6%	7,388	6,121	1,200	6.1%	

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Vaccine Findings

- Nationally, the US reported a 53.6% increase in vaccine distribution January 21 - 27 versus January 14 – 20 as nearly 9 million new vaccines were administered.
- As of January 27, all but 3 states (Alabama, Missouri, and Idaho) have administered one or more doses of the vaccine to at least 5% of their population. On the other side of the scale, Alaska has administered at least one dose to nearly 12% of the state's population.
- 7 states more than doubled the number of vaccines distributed last week versus the prior week, and only 3 states (Hawaii, Florida, and Utah) reported a decrease in the number of new doses administered.

5 Slide Series Overview

Our 5 Slide Series is typically a monthly publication whereby we briefly discuss/address a selected topic outside the confines of our client engagements. Since March, we have produced dozens of editions tracking the COVID pandemic. The Menges Group has developed a variety of datasets that we use to support our 5 Slide Series and client projects.

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Address: 4001 9th Street N., Suite 227, Arlington, VA 22203

Website: www.themengesgroup.com

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