

COVID Tabulations: Cases, Deaths, and (thankfully!) Vaccines

5 Slide Series, Volume 92-a

January 8, 2021

The Menges Group

Strategic Health Policy & Care Coordination Consulting

Introduction and Overview

- This edition presents the monthly progression of COVID cases and deaths by state over the course of the pandemic.
 - The US reported its *highest* monthly number of new COVID cases and deaths during December.
- This edition also summarizes initial data regarding COVID vaccinations in the United States. Approximately 5.3 million people received a vaccine as of January 7, representing 1.5% of the overall US population.
- Lastly, we've provided a recent update of the US's death rate relative to other countries. The US is 7th highest, despite our country having a relatively low overall population density.

COVID Cases by Month, Alabama through Kansas

State	New Cases Per Month									
	March	April	May	June	July	August	September	October	November	December
Alabama	999	6,069	10,884	20,093	49,678	38,335	28,643	37,584	57,239	111,702
Alaska	133	220	116	663	2,543	2,400	2,632	7,540	16,160	14,333
Arizona	1,297	6,350	12,288	59,463	94,709	27,758	16,645	27,451	81,084	196,783
Arkansas	564	2,717	3,972	13,524	21,734	18,713	22,473	28,493	45,169	67,779
California	8,555	41,887	62,644	119,039	270,120	210,268	108,584	114,123	301,944	1,070,577
Colorado	2,990	12,217	11,157	6,334	14,250	10,849	13,293	36,754	126,658	101,077
Connecticut	3,128	24,572	14,501	4,313	3,296	3,069	4,671	13,657	46,088	68,413
Delaware	319	4,415	4,764	1,976	3,314	2,641	3,184	4,338	10,703	21,802
District of Columbia	495	3,828	4,478	1,526	1,799	1,866	1,334	1,940	4,286	7,431
Florida	6,742	26,941	22,472	96,271	317,952	153,085	83,045	96,031	196,772	323,996
Georgia	4,116	21,315	19,620	32,229	94,062	82,896	47,247	71,146	81,697	189,737
Hawaii	224	385	33	259	1,187	6,359	4,108	2,652	2,799	3,453
Idaho	526	1,490	839	3,269	14,729	11,403	10,293	22,248	37,361	39,230
Illinois	5,989	46,926	67,670	24,073	36,040	56,981	59,253	119,622	311,268	238,015
Indiana	2,177	15,922	17,330	11,311	21,060	28,477	26,018	59,542	159,857	172,761
Iowa	498	6,647	12,476	9,531	15,601	20,499	23,996	39,550	101,836	51,078
Kansas	435	3,870	5,573	4,751	13,492	15,286	17,487	25,814	73,657	65,027

Yellow highlighting denotes the month with the highest number of cases for each state over the course of the COVID pandemic.



COVID Cases by Month, Kentucky through North Carolina

State	New Cases Per Month									
	March	April	May	June	July	August	September	October	November	December
Kentucky	590	4,118	5,229	5,979	15,065	19,903	21,941	36,414	74,011	85,573
Louisiana	5,237	22,807	11,977	18,182	58,191	32,500	18,564	19,191	45,765	82,861
Maine	303	792	1,230	928	659	614	865	1,277	5,089	12,444
Maryland	1,662	20,163	31,631	14,696	20,755	19,835	16,475	20,376	53,117	78,124
Massachusetts	6,619	55,585	34,760	11,917	8,730	10,921	3,583	26,460	67,556	149,046
Michigan	7,629	33,719	16,007	13,495	19,902	22,411	24,911	59,090	191,200	138,835
Minnesota	629	4,507	19,724	11,478	18,165	21,410	23,274	49,339	170,296	96,539
Mississippi	937	5,878	8,686	11,747	31,499	24,203	15,240	21,970	33,110	62,541
Missouri	1,350	6,213	5,734	8,826	28,515	34,962	42,508	59,635	123,920	102,963
Montana	198	254	63	452	3,010	3,463	5,739	19,622	29,455	19,445
Nebraska	186	4,133	9,769	5,093	7,017	8,076	11,277	25,168	57,701	38,695
Nevada	1,113	3,940	3,575	9,954	29,560	21,176	10,766	20,760	51,882	72,452
New Hampshire	367	1,779	2,505	1,131	801	692	991	2,818	9,910	23,034
New Jersey	18,696	99,956	41,793	13,076	10,014	10,205	13,322	32,617	99,454	140,248
New Mexico	315	3,096	4,278	4,458	8,453	4,752	4,083	17,055	50,605	45,802
New York	74,464	226,953	66,620	22,333	21,341	19,036	23,103	46,293	128,366	300,502
North Carolina	1,527	8,980	18,179	36,378	57,306	45,619	43,015	63,801	90,163	176,102

Yellow highlighting denotes the month with the highest number of cases for each state over the course of the COVID pandemic.



COVID Cases by Month, North Dakota through Wyoming, Including US Totals

State	New Cases Per Month									
	March	April	May	June	July	August	September	October	November	December
North Dakota	126	941	1,513	1,005	2,888	5,347	10,029	22,072	35,337	13,244
Ohio	2,199	15,828	17,486	16,276	39,370	31,998	30,830	61,710	205,366	279,317
Oklahoma	566	3,052	2,888	7,251	22,699	22,277	28,466	35,563	74,983	93,191
Oregon	689	1,820	1,733	4,452	9,815	8,213	6,831	11,369	30,531	38,475
Pennsylvania	4,997	43,227	27,994	15,008	25,561	22,053	25,295	48,681	154,155	279,089
Rhode Island	488	8,133	6,307	1,885	2,209	2,927	2,799	8,126	23,849	31,226
South Carolina	1,083	5,012	5,766	24,538	52,617	29,976	28,950	28,670	40,875	90,020
South Dakota	107	2,343	2,543	1,771	2,000	4,745	8,880	23,603	34,472	18,700
Tennessee	2,049	8,457	12,326	19,983	60,329	48,889	41,324	63,566	109,489	206,167
Texas	3,577	25,484	35,902	101,729	276,387	197,227	143,710	169,424	308,694	510,018
Utah	886	3,785	5,157	12,535	17,894	11,908	20,887	41,617	81,074	80,868
Vermont	293	573	115	227	206	210	128	427	1,993	3,240
Virginia	1,249	14,599	28,759	18,180	27,101	30,706	27,677	32,919	56,645	111,749
Washington	5,283	9,521	8,000	11,727	24,184	18,993	13,842	21,020	59,595	78,889
West Virginia	162	964	884	894	3,738	3,608	5,598	8,612	23,382	37,492
Wisconsin	1,350	5,622	11,711	13,039	25,297	23,713	48,439	108,698	173,860	108,708
Wyoming	121	438	344	584	1,239	1,116	2,106	7,350	20,007	11,104
United States	186,234	878,443	722,005	849,832	1,908,055	1,453,957	1,198,354	1,923,798	4,370,485	6,359,897

Yellow highlighting denotes the month with the highest number of cases for each state over the course of the COVID pandemic.



COVID Deaths by Month, Alabama through Kansas

State	New Deaths Per Month									
	March	April	May	June	July	August	September	October	November	December
Alabama	14	258	358	320	630	602	358	427	611	1,249
Alaska	2	5	1	4	9	13	18	25	38	83
Arizona	24	296	586	739	2,050	1,336	623	325	661	2,239
Arkansas	8	53	72	137	183	344	572	556	577	1,174
California	184	1,873	2,185	1,841	3,139	3,798	2,878	1,763	1,548	6,756
Colorado	69	706	670	245	151	111	109	248	751	1,819
Connecticut	69	2,188	1,687	378	110	33	43	108	404	975
Delaware	10	142	214	143	76	20	31	72	64	154
District of Columbia	9	215	242	85	34	22	20	19	34	106
Florida	85	1,182	1,183	1,054	3,338	4,344	3,130	2,444	1,836	3,076
Georgia	126	995	898	739	916	1,832	1,355	929	1,408	1,390
Hawaii	1	15	1	1	7	44	66	83	24	44
Idaho	9	54	19	10	101	171	105	161	307	501
Illinois	107	2,254	3,065	1,710	567	555	677	1,095	2,985	4,964
Indiana	61	1,053	1,020	506	325	331	336	700	1,391	2,540
Iowa	7	155	375	180	155	248	238	358	710	1,465
Kansas	10	123	78	65	82	93	227	351	531	1,181

Yellow highlighting denotes the month with the highest number of deaths for each state over the course of the COVID pandemic.



COVID Deaths by Month, Kentucky through North Carolina

State	New Deaths Per Month									
	March	April	May	June	July	August	September	October	November	December
Kentucky	18	222	201	147	165	212	243	343	514	891
Louisiana	240	1,665	886	430	728	1,001	561	408	501	1,068
Maine	5	48	36	16	18	9	9	6	47	153
Maryland	18	1,121	1,393	658	303	262	194	198	494	1,254
Massachusetts	89	3,473	3,284	1,208	555	451	396	535	757	1,675
Michigan	264	3,524	1,703	706	256	303	328	615	1,866	3,445
Minnesota	12	331	707	426	164	226	223	422	1,141	1,730
Mississippi	20	241	473	339	590	810	496	365	473	980
Missouri	15	326	443	250	251	317	530	926	877	1,878
Montana	5	11	1	5	38	44	76	197	307	278
Nebraska	4	66	108	101	59	64	91	159	387	640
Nevada	26	217	176	88	324	474	295	179	370	987
New Hampshire	3	69	173	126	44	17	7	44	43	233
New Jersey	267	6,961	4,470	3,337	784	126	177	228	643	2,049
New Mexico	5	118	233	141	145	137	98	141	550	911
New York	1,550	21,052	7,429	2,253	603	473	213	402	988	3,333
North Carolina	10	375	526	451	585	786	832	835	896	1,515

Yellow highlighting denotes the month with the highest number of deaths for each state over the course of the COVID pandemic.



COVID Deaths by Month, North Dakota through Wyoming, Including US Totals

State	New Deaths Per Month									
	March	April	May	June	July	August	September	October	November	December
North Dakota	3	16	45	24	19	40	103	279	404	366
Ohio	55	920	1,180	708	626	649	666	497	1,128	2,533
Oklahoma	23	199	112	53	154	259	231	306	406	746
Oregon	18	85	50	57	115	142	93	130	229	566
Pennsylvania	72	2,508	2,975	1,140	566	482	473	667	1,556	5,581
Rhode Island	8	258	452	232	57	41	66	87	172	404
South Carolina	22	222	250	245	973	1,008	658	557	446	915
South Dakota	1	16	45	29	39	37	56	202	521	542
Tennessee	13	187	160	237	450	680	702	893	1,224	2,300
Texas	57	771	855	799	4,791	5,584	3,245	2,447	3,419	6,187
Utah	5	41	67	59	136	101	51	144	267	399
Vermont	13	35	7	1	1	1	-	-	11	67
Virginia	12	540	823	388	411	406	628	446	408	970
Washington	225	596	304	207	320	349	220	246	427	628
West Virginia	1	43	31	18	23	98	136	107	278	603
Wisconsin	25	291	278	199	150	189	206	754	1,412	1,741
Wyoming	-	7	9	4	6	11	13	37	128	223
United States	3,899	58,122	42,539	23,239	26,323	29,686	23,102	23,466	37,170	77,507

Yellow highlighting denotes the month with the highest number of deaths for each state over the course of the COVID pandemic.



December was a Horrific Month

- New COVID deaths in December (77,507) were more than double November's total and were 33% above the next-worst month we have experienced (April, with 58,122).
- 35 states reported their highest number of new monthly deaths for December. In ten states, COVID deaths during December were more than double any previous month.
- Nationally, more than 6 million new COVID cases were reported in December, a 45.5% increase over November.

Vaccine Uptake and Doses Distributed, Top 34 States (by Percentage of Persons Vaccinated) Reported as of January 7, 2021

Name	% of Population Vaccinated	State Rank	Doses Distributed	Shots Given	% of Doses Used
South Dakota	3.5%	1	45,275	31,267	69%
West Virginia	3.5%	2	126,275	62,154	49%
North Dakota	3.1%	3	40,825	23,642	58%
Vermont	3.0%	4	37,825	18,740	50%
Alaska	2.7%	5	80,300	20,106	25%
Connecticut	2.6%	6	149,900	93,056	62%
Maine	2.5%	7	70,150	34,201	49%
Washington, D.C.	2.5%	8	35,475	17,475	49%
New Hampshire	2.4%	9	54,650	33,177	61%
Tennessee	2.4%	10	328,500	166,389	51%
Rhode Island	2.4%	11	55,600	25,688	46%
Montana	2.3%	12	52,450	24,574	47%
New Mexico	2.1%	13	106,525	44,766	42%
Colorado	2.1%	14	282,400	122,347	43%
Iowa	2.1%	15	121,475	66,051	54%
Nebraska	1.9%	16	90,875	36,753	40%
Oklahoma	1.8%	17	223,050	72,862	33%

Name	% of Population Vaccinated	State Rank	Doses Distributed	Shots Given	% of Doses Used
Massachusetts	1.8%	18	329,000	124,450	38%
Utah	1.8%	19	161,825	56,313	35%
Minnesota	1.7%	20	288,850	97,098	34%
Missouri	1.7%	21	294,850	105,173	36%
Texas	1.7%	22	1,375,800	489,003	36%
Indiana	1.7%	23	356,025	111,806	31%
Hawaii	1.6%	24	82,500	22,896	28%
New York	1.6%	25	934,925	311,797	33%
Florida	1.6%	26	1,152,000	339,032	29%
New Jersey	1.5%	27	406,500	137,586	34%
Delaware	1.5%	28	53,650	14,835	28%
Kentucky	1.5%	29	174,150	67,673	39%
Ohio	1.5%	30	359,800	175,681	49%
Illinois	1.5%	31	542,200	189,660	35%
Maryland	1.4%	32	292,450	87,513	30%
Wyoming	1.4%	33	32,600	8,360	26%
Pennsylvania	1.4%	34	656,600	179,354	27%

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Vaccine Uptake and Doses Distributed, Bottom 17 States (by Percentage of Persons Vaccinated) and US Total Reported as of January 7, 2021

Name	% of Population Vaccinated	State Rank	Doses Distributed	Shots Given	% of Doses Used
Washington	1.4%	35	403,500	104,975	26%
Virginia	1.4%	36	481,550	117,240	24%
Arkansas	1.4%	37	170,700	40,899	24%
Oregon	1.3%	38	227,000	55,247	24%
North Carolina	1.3%	39	498,450	137,198	28%
Wisconsin	1.3%	40	266,675	73,213	27%
Michigan	1.2%	41	480,750	124,689	26%
California	1.2%	42	2,057,375	486,087	24%
Nevada	1.2%	43	142,525	36,874	26%
Louisiana	1.2%	44	230,125	54,973	24%
Idaho	1.2%	45	81,525	20,848	26%
South Carolina	1.1%	46	146,250	58,044	40%
Kansas	1.1%	47	131,750	31,938	24%
Arizona	1.0%	48	419,175	75,683	18%
Alabama	0.9%	49	183,900	43,280	24%
Georgia	0.8%	50	514,925	89,695	17%
Mississippi	0.8%	51	98,650	24,386	25%
US Total	1.5%		15,930,100	4,986,747	31%

Data reported as of January 7.

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Early Vaccination Data Observations

- As of January 7, more than 17 million vaccine doses were delivered in the United States, with 5.3 million persons receiving the vaccine.
 - 31% of received doses had been administered as of January 7, with 1.5% of the US population being vaccinated as of this date.
 - In no state had 5% or more of the population been vaccinated as of January 7, with the highest rates being in South Dakota and West Virginia (both at 3.5%).
- Some states that have seen the largest recent outbreaks (e.g., South Dakota, North Dakota, West Virginia, Tennessee) have used the largest share of their doses compared to other states.
- 11 states have administered 25% or less of their doses (Alabama, Alaska, Arizona, Arkansas, California, Georgia, Kansas, Louisiana, Mississippi, Oregon, and Virginia).

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The USA Currently has one of the World's Highest Rates of COVID Deaths per Population

Rank, COVID Death Rate as of January 5, 2021	Country	COVID Deaths Per 100,000 Population Through January 5, 2021	Population Per Square Mile
1	Belgium	174	977
2	Italy	126	532
3	Peru	118	64
4	Czechia	115	357
5	United Kingdom	114	597
6	Spain	110	239
7	USA	109	86
8	Mexico	102	166
9	France	99	270
10	Argentina	98	41
11	Brazil	94	64
12	Chile	90	65
13	Colombia	89	113
14	Sweden	88	59
15	Romania	83	212
Total, All Countries		25	132

- Among the 84 countries with at least 10 million residents, the USA had the 7th highest COVID death rate as of January 5.
- Our country's COVID death rate is more than 4 times above the worldwide average.
- The USA's population is less densely concentrated than the rest of the world's population, which provides an inherent advantage in limiting the spread of the virus. While most of the 15 countries with the highest COVID death rates have much higher population density than the USA, several South American countries and Sweden also have high COVID death rates and modest population density.
- These statistics, taken together, are not encouraging in terms of how well our country has handled the pandemic.

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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