

COVID Tabulations: Monthly COVID Death and Case Progression by State

5 Slide Series, Volume 91-a

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The Menges Group

Strategic Health Policy & Care Coordination Consulting

Introduction

- This edition presents the monthly progression of the COVID-19 cases and deaths from March through December 14.
- We expect that more COVID deaths will occur in December than in any prior month in the US overall and in 33 states. December's new COVID cases are at record highs nationally and in 35 states.
- The 3,400 new COVID deaths reported on December 16, are nearly 200 above the next-highest day the US has experienced to date.
- One positive development is that the percentage of monthly new cases resulting in death is far lower in more recent months (approximately 1%) than was the case during April and May (approximately 6%).
- Multiple points of research, including data we present herein, compellingly demonstrate that overall deaths in the USA during 2020 are far higher than occurred during 2019.

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COVID Deaths by Month: Alabama – Kansas

The full extrapolation for December in the right-hand column multiplies the known December deaths through the 14th by a factor of 31/14.

Given the number of current cases, hospitalizations, and deaths (e.g., the nation’s highest number of new COVID deaths ever occurred today on December 16), it is highly likely that this “straight extrapolation” approach will under-estimate December’s total deaths.

State	New Deaths Per Month										December 1 - 14	December Extrapolated to Full Month
	March	April	May	June	July	August	September	October	November	December		
Alabama	14	258	358	320	630	602	358	427	611	525	1,163	
Alaska	2	5	1	4	9	13	18	25	38	54	120	
Arizona	24	296	586	739	2,050	1,336	623	325	661	718	1,590	
Arkansas	8	53	72	137	183	344	572	556	577	488	1,081	
California	184	1,873	2,185	1,841	3,139	3,798	2,878	1,763	1,548	1,987	4,400	
Colorado	69	706	670	245	151	111	109	248	751	955	2,115	
Connecticut	69	2,188	1,687	378	110	33	43	108	404	424	939	
Delaware	10	142	214	143	76	20	31	72	64	44	97	
District of Columbia	9	215	242	85	34	22	20	19	34	36	80	
Florida	85	1,182	1,183	1,054	3,338	4,344	3,130	2,444	1,836	1,406	3,113	
Georgia	126	995	898	739	916	1,832	1,355	929	1,408	605	1,340	
Hawaii	1	15	1	1	7	44	66	83	24	30	66	
Idaho	9	54	19	10	101	171	105	161	307	262	580	
Illinois	107	2,254	3,065	1,710	567	555	677	1,095	2,985	2,443	5,410	
Indiana	61	1,053	1,020	506	325	331	336	700	1,391	1,117	2,473	
Iowa	7	155	375	180	155	248	238	358	710	843	1,867	
Kansas	10	123	78	65	82	93	227	351	531	549	1,216	



Yellow shading denotes the highest month.

COVID Deaths by Month: Kentucky – North Carolina

State	New Deaths Per Month										December 1 - 14	December Extrapolated to Full Month
	March	April	May	June	July	August	September	October	November			
Kentucky	18	222	201	147	165	212	243	343	514	407	901	
Louisiana	240	1,665	886	430	728	1,001	561	408	501	425	941	
Maine	5	48	36	16	18	9	9	6	47	65	144	
Maryland	18	1,121	1,393	658	303	262	194	198	494	501	1,109	
Massachusetts	89	3,473	3,284	1,208	555	451	396	535	757	640	1,417	
Michigan	264	3,524	1,703	706	256	303	328	615	1,866	1,717	3,802	
Minnesota	12	331	707	426	164	226	223	422	1,141	869	1,924	
Mississippi	20	241	473	339	590	810	496	365	473	397	879	
Missouri	15	326	443	250	251	317	530	926	877	795	1,760	
Montana	5	11	1	5	38	44	76	197	307	134	297	
Nebraska	4	66	108	101	59	64	91	159	387	393	870	
Nevada	26	217	176	88	324	474	295	179	370	408	903	
New Hampshire	3	69	173	126	44	17	7	44	43	78	173	
New Jersey	267	6,961	4,470	3,337	784	126	177	228	643	782	1,732	
New Mexico	5	118	233	141	145	137	98	141	550	410	908	
New York	1,550	21,052	7,429	2,253	603	473	213	402	988	1,115	2,469	
North Carolina	10	375	526	451	585	786	832	835	896	603	1,335	

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Yellow shading denotes the highest month.

COVID Deaths by Month: North Dakota – Wyoming, Including US Totals

By December 14, this month already has the nation’s fourth-highest deaths among the 10 months where substantial COVID deaths have occurred.

It seems inevitable (based on confirmed case counts, current hospitalizations, and death totals on December 15th and 16th) that by month’s end December will be the worst month to date in terms of COVID deaths.

April was the next worst month after December in terms of deaths.

State	New Deaths Per Month										December Extrapolated to Full Month
	March	April	May	June	July	August	September	October	November	December 1 - 14	
North Dakota	3	16	45	24	19	40	103	279	404	230	509
Ohio	55	920	1,180	708	626	649	666	497	1,128	1,122	2,484
Oklahoma	23	199	112	53	154	259	231	306	406	329	729
Oregon	18	85	50	57	115	142	93	130	229	249	551
Pennsylvania	72	2,508	2,975	1,140	566	482	473	667	1,556	2,229	4,936
Rhode Island	8	258	452	232	57	41	66	87	172	182	403
South Carolina	22	222	250	245	973	1,008	658	557	446	370	819
South Dakota	1	16	45	29	39	37	56	202	521	313	693
Tennessee	13	187	160	237	450	680	702	893	1,224	938	2,077
Texas	57	771	855	799	4,791	5,584	3,245	2,447	3,419	2,614	5,788
Utah	5	41	67	59	136	101	51	144	267	194	430
Vermont	13	35	7	1	1	1	-	-	11	27	60
Virginia	12	540	823	388	411	406	628	446	408	352	779
Washington	225	596	304	207	320	349	220	246	427	189	419
West Virginia	1	43	31	18	23	98	136	107	278	243	538
Wisconsin	25	291	278	199	150	189	206	754	1,412	855	1,893
Wyoming	-	7	9	4	6	11	13	37	128	106	235
United States	3,899	58,122	42,539	23,239	26,323	29,686	23,102	23,466	37,170	32,767	72,556



Yellow shading denotes the highest month.

COVID Cases by Month: Alabama – Kansas

State	New Cases Per Month										December Extrapolated to Full Month
	March	April	May	June	July	August	September	October	November	December 1 - 14	
Alabama	999	6,069	10,884	20,093	49,678	38,335	28,643	37,584	57,239	48,371	107,107
Alaska	133	220	116	663	2,543	2,400	2,632	7,540	16,160	8,956	19,831
Arizona	1,297	6,350	12,288	59,463	94,709	27,758	16,645	27,451	81,084	93,413	206,843
Arkansas	564	2,717	3,972	13,524	21,734	18,713	22,473	28,493	45,169	29,698	65,760
California	8,555	41,887	62,644	119,039	270,120	210,268	108,584	114,123	301,944	383,678	849,573
Colorado	2,990	12,217	11,157	6,334	14,250	10,849	13,293	36,754	126,658	57,143	126,531
Connecticut	3,128	24,572	14,501	4,313	3,296	3,069	4,671	13,657	46,088	36,697	81,258
Delaware	319	4,415	4,764	1,976	3,314	2,641	3,184	4,338	10,703	10,803	23,921
District of Columbia	495	3,828	4,478	1,526	1,799	1,866	1,334	1,940	4,286	3,486	7,719
Florida	6,742	26,941	22,472	96,271	317,952	153,085	83,045	96,031	196,772	135,064	299,070
Georgia	4,116	21,315	19,620	32,229	94,062	82,896	47,247	71,146	81,697	72,829	161,264
Hawaii	224	385	33	259	1,187	6,359	4,108	2,652	2,799	1,483	3,284
Idaho	526	1,490	839	3,269	14,729	11,403	10,293	22,248	37,361	20,521	45,439
Illinois	5,989	46,926	67,670	24,073	36,040	56,981	59,253	119,622	311,268	130,035	287,935
Indiana	2,177	15,922	17,330	11,311	21,060	28,477	26,018	59,542	159,857	91,548	202,713
Iowa	498	6,647	12,476	9,531	15,601	20,499	23,996	39,550	101,836	26,268	58,165
Kansas	435	3,870	5,573	4,751	13,492	15,286	17,550	25,814	73,657	32,681	72,365



Yellow shading denotes the highest month.

COVID Cases by Month: Kentucky – North Carolina

State	New Cases Per Month										December Extrapolated to Full Month
	March	April	May	June	July	August	September	October	November	December 1 - 14	
Kentucky	590	4,118	5,229	5,979	15,065	19,903	21,946	36,414	74,011	45,413	100,557
Louisiana	5,237	22,807	11,977	18,182	58,191	32,500	18,564	19,191	45,765	37,229	82,436
Maine	303	792	1,230	928	659	614	865	1,277	5,089	4,592	10,168
Maryland	1,662	20,163	31,631	14,696	20,755	19,835	16,475	20,376	53,117	38,505	85,261
Massachusetts	6,619	55,585	34,760	11,917	8,730	10,921	3,583	26,460	67,556	68,099	150,791
Michigan	7,629	33,719	16,007	13,495	19,902	22,411	24,911	59,090	191,200	83,802	185,562
Minnesota	629	4,507	19,724	11,478	18,165	21,410	23,274	49,339	170,296	63,078	139,673
Mississippi	937	5,878	8,686	11,747	31,499	24,203	15,240	21,970	33,110	27,825	61,613
Missouri	1,350	6,213	5,734	8,826	28,515	34,962	42,544	59,635	123,920	52,194	115,572
Montana	198	254	63	452	3,010	3,463	5,739	19,622	29,455	11,100	24,579
Nebraska	186	4,133	9,769	5,093	7,017	8,076	11,277	25,168	57,701	21,187	46,914
Nevada	1,113	3,940	3,575	9,954	29,560	21,176	10,766	20,760	51,882	37,079	82,104
New Hampshire	367	1,779	2,505	1,131	801	692	991	2,818	9,910	10,881	24,094
New Jersey	18,696	99,956	41,793	13,076	10,014	10,205	13,322	32,617	99,454	68,183	150,977
New Mexico	315	3,096	4,278	4,458	8,453	4,752	4,083	17,055	50,605	24,204	53,595
New York	74,464	226,953	66,620	22,333	21,341	19,036	23,103	46,293	128,366	125,869	278,710
North Carolina	1,527	8,980	18,179	36,378	57,306	45,619	43,015	63,801	90,163	76,753	169,953



Yellow shading denotes the highest month.

COVID Cases by Month: North Dakota – Wyoming, Including US Totals

November was the month with the highest number of reported cases of all months, but December cases are expected to be even larger. December cases as of the 14th are already *two thirds* of the total number for November.

46 out of 50 states set a record number of cases in November. All but 11 of those states are expected to eclipse their November record in December.

State	New Cases Per Month										December Extrapolated to Full Month
	March	April	May	June	July	August	September	October	November	December 1 - 14	
North Dakota	126	941	1,513	1,005	2,888	5,347	10,029	22,072	35,337	8,815	19,519
Ohio	2,199	15,828	17,486	16,276	39,370	31,998	30,830	61,710	205,366	149,539	331,122
Oklahoma	566	3,052	2,888	7,251	22,699	22,277	28,466	35,563	74,983	42,022	93,049
Oregon	689	1,820	1,733	4,452	9,815	8,213	6,831	11,369	30,531	19,588	43,373
Pennsylvania	4,997	43,227	27,994	15,008	25,561	22,053	25,295	48,681	154,155	138,451	306,570
Rhode Island	488	8,133	6,307	1,885	2,209	2,927	2,799	8,126	23,849	17,348	38,413
South Carolina	1,083	5,012	5,766	24,538	52,617	29,976	28,950	28,670	40,875	37,289	82,569
South Dakota	107	2,343	2,543	1,771	2,000	4,745	8,880	23,603	34,472	10,890	24,114
Tennessee	2,049	8,457	12,326	19,983	60,329	48,889	41,324	63,566	109,489	86,064	190,570
Texas	3,577	25,484	35,902	101,729	276,387	197,227	143,710	169,424	308,694	231,712	513,077
Utah	886	3,785	5,157	12,535	17,894	11,908	20,887	41,617	81,074	40,128	88,855
Vermont	293	573	115	227	206	210	128	427	1,993	1,685	3,731
Virginia	1,249	14,599	28,759	18,180	27,101	30,706	27,677	32,919	56,645	47,314	104,767
Washington	5,283	9,521	8,000	11,727	24,184	18,993	13,842	21,020	59,595	40,167	88,941
West Virginia	162	964	884	894	3,738	3,608	5,598	8,612	23,382	16,552	36,651
Wisconsin	1,350	5,622	11,711	13,039	25,297	23,713	48,439	108,698	173,860	59,555	131,872
Wyoming	121	438	344	584	1,239	1,116	2,106	7,350	20,007	6,470	14,326
United States	186,234	878,443	722,005	849,832	1,908,083	1,454,569	1,198,458	1,923,798	4,370,485	2,932,256	6,492,853



Yellow shading denotes the highest month.

Nationwide Monthly Deaths as Percentage of New Confirmed Cases

Figure, US total	March	April	May	June	July	August	September	October	November	December 1 - 14	December Extrapolated to Full Month
Reported Cases	186,234	878,443	722,005	849,832	1,908,083	1,454,569	1,198,458	1,923,798	4,370,485	2,932,256	6,492,853
Deaths	3,899	58,122	42,539	23,239	26,323	29,686	23,102	23,466	37,170	32,767	72,556
Death Rate	2.09%	6.62%	5.89%	2.73%	1.38%	2.04%	1.93%	1.22%	0.85%	1.12%	1.12%

- Within the confirmed cases, the percentage of deaths has dropped tremendously over the course of the pandemic – from roughly 6% during April and March to roughly 1% from October through mid-December.
- Notwithstanding this positive development, our inability to limit the spread of the virus is still resulting in December having the most monthly deaths nationally and in 33 states, as shown in prior slides.

Overall USA Deaths are Far Higher During 2020 Than Occurred During 2019

- A Reuters article on November 27th noted that: “In mid-October, the CDC released analysis of death figures between Jan. 26 and Oct. 3 and revealed there had been an estimated 299,028 excess deaths in 2020 by this time. It said of this figure that 198,081 deaths (66%) were believed to be due to COVID-19 – although the department also noted that underestimations could have been made on the total impact of the pandemic.”
- Our analysis of the first half of the year, shown in the table at the right, similarly indicates that overall deaths in the USA during 2020 are well above the 2019 figures *every month*, with the COVID deaths representing the majority of this year’s “excess deaths.”
- All this evidence indicates that the pandemic’s impact on overall deaths is considerably higher than the COVID-attributed deaths alone would cause.

Month	Additional Overall Deaths, 2020 versus 2019	COVID Deaths During Month	Direct COVID Deaths as % of All Excess Deaths
March	14,000	3,631	26%
April	86,000	58,391	68%
May	42,000	42,539	101%
June	24,000	23,239	97%
4 Month Total	166,000	127,800	77%

Source for the first bullet:
<https://www.reuters.com/article/uk-factcheck-chart-us-death-figures-2020/fact-check-chart-does-not-present-accurate-us-deaths-figure-for-2020-idUSKBN2872MV>

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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.

To be added to our list to receive these as they are published (or to be removed), please email us at pcall@themengesgroup.com. If you have questions about the content or data sources we have available, please email us at jmenges@themengesgroup.com or call 571-312-2360.

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