

# COVID Tabulations: State-Level Analyses of Cases and Deaths Over the Course of the Pandemic

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**The Menges Group**

Strategic Health Policy & Care Coordination Consulting

# Key Findings

- Nationally, the number of new cases and deaths decreased in September relative to August but have remained at concerning high levels.
- Many states experienced their worst month in September -- 16 states reported their largest monthly volume of new cases and 13 states reported their largest number of new deaths.
- Confirmed cases represented just 2.2% of the US population as of September 30. This percentage tended to be highest in southern states across the entirety of the pandemic, led by Louisiana, Mississippi, Florida, Alabama, and Arizona. During the month of September, however, northern states tended to have higher rates of new confirmed cases -- North Dakota, South Dakota, and Wisconsin experienced the nation's highest percentages.

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# Monthly New Cases and Deaths per 100,000 Population, March through September, Alabama through Kansas

State	Monthly New Cases per 100,000 Population							Monthly New Deaths per 100,000 Population						
	March	April	May	June	July	August	September	March	April	May	June	July	August	September
Alabama	20	124	222	410	1,013	782	584	0.3	5.3	7.3	6.5	12.8	12.3	7.3
Alaska	18	30	16	91	348	328	360	0.3	0.7	0.1	0.5	1.2	1.8	2.5
Arizona	18	87	169	817	1,301	381	229	0.3	4.1	8.1	10.2	28.2	18.4	8.6
Arkansas	19	90	132	448	720	620	745	0.3	1.8	2.4	4.5	6.1	11.4	19.0
California	22	106	159	301	684	532	275	0.5	4.7	5.5	4.7	7.9	9.6	7.3
Colorado	52	212	194	110	247	188	231	1.2	12.3	11.6	4.3	2.6	1.9	1.9
Connecticut	88	689	407	121	92	86	131	1.9	61.4	47.3	10.6	3.1	0.9	1.2
Delaware	33	453	489	203	340	271	327	1.0	14.6	22.0	14.7	7.8	2.1	3.2
District of Columbia	70	542	635	216	255	264	189	1.3	30.5	34.3	12.0	4.8	3.1	2.8
Florida	31	125	105	448	1,480	713	387	0.4	5.5	5.5	4.9	15.5	20.2	14.6
Georgia	39	201	185	304	886	781	445	1.2	9.4	8.5	7.0	8.6	17.3	12.8
Hawaii	16	27	2	18	84	449	290	0.1	1.1	0.1	0.1	0.5	3.1	4.7
Idaho	29	83	47	183	824	638	576	0.5	3.0	1.1	0.6	5.7	9.6	5.9
Illinois	47	370	534	190	284	450	468	0.8	17.8	24.2	13.5	4.5	4.4	5.3
Indiana	32	237	257	168	313	423	386	0.9	15.6	15.2	7.5	4.8	4.9	5.0
Iowa	16	211	395	302	494	650	761	0.2	4.9	11.9	5.7	4.9	7.9	7.5
Kansas	15	133	191	163	463	525	600	0.3	4.2	2.7	2.2	2.8	3.2	7.8

Yellow highlighting denotes the month during which each state had its highest number of new COVID cases and deaths per 100,000 population.



# Monthly New Cases and Deaths per 100,000 Population, March through September, Kentucky through North Carolina

State	Monthly New Cases per 100,000 Population							Monthly New Deaths per 100,000 Population						
	March	April	May	June	July	August	September	March	April	May	June	July	August	September
Kentucky	13	92	117	134	337	445	491	0.4	5.0	4.5	3.3	3.7	4.7	5.4
Louisiana	113	491	258	391	1,252	699	399	5.2	35.8	19.1	9.2	15.7	21.5	12.1
Maine	23	59	92	69	49	46	64	0.4	3.6	2.7	1.2	1.3	0.7	0.7
Maryland	27	334	523	243	343	328	273	0.3	18.5	23.0	10.9	5.0	4.3	3.2
Massachusetts	96	806	504	173	127	158	52	1.3	50.4	47.6	17.5	8.1	6.5	5.7
Michigan	76	338	160	135	199	224	249	2.6	35.3	17.1	7.1	2.6	3.0	3.3
Minnesota	11	80	350	204	322	380	413	0.2	5.9	12.5	7.6	2.9	4.0	4.0
Mississippi	31	198	292	395	1,058	813	512	0.7	8.1	15.9	11.4	19.8	27.2	16.7
Missouri	22	101	93	144	465	570	693	0.2	5.3	7.2	4.1	4.1	5.2	8.6
Montana	19	24	6	42	282	324	537	0.5	1.0	0.1	0.5	3.6	4.1	7.1
Nebraska	10	214	505	263	363	417	583	0.2	3.4	5.6	5.2	3.1	3.3	4.7
Nevada	36	128	116	323	960	687	350	0.8	7.0	5.7	2.9	10.5	15.4	9.6
New Hampshire	27	131	184	83	59	51	73	0.2	5.1	12.7	9.3	3.2	1.3	0.5
New Jersey	210	1,125	471	147	113	115	150	3.0	78.4	50.3	37.6	8.8	1.4	2.0
New Mexico	15	148	204	213	403	227	195	0.2	5.6	11.1	6.7	6.9	6.5	4.7
New York	383	1,167	342	115	110	98	119	8.0	108.2	38.2	11.6	3.1	2.4	1.1
North Carolina	15	86	173	347	546	435	410	0.1	3.6	5.0	4.3	5.6	7.5	7.9

Yellow highlighting denotes the month during which each state had its highest number of new COVID cases and deaths per 100,000 population.



# Monthly New Cases and Deaths per 100,000 Population, March through September, North Dakota through Wyoming, Including the United States

State	Monthly New Cases per 100,000 Population							Monthly New Deaths per 100,000 Population						
	March	April	May	June	July	August	September	March	April	May	June	July	August	September
North Dakota	17	123	199	132	379	702	1,316	0.4	2.1	5.9	3.1	2.5	5.2	13.5
Ohio	19	135	150	139	337	274	264	0.5	7.9	10.1	6.1	5.4	5.6	5.7
Oklahoma	14	77	73	183	574	563	719	0.6	5.0	2.8	1.3	3.9	6.5	5.8
Oregon	16	43	41	106	233	195	162	0.4	2.0	1.2	1.4	2.7	3.4	2.2
Pennsylvania	39	338	219	117	200	172	198	0.6	19.6	23.2	8.9	4.4	3.8	3.7
Rhode Island	46	768	595	178	209	276	264	0.8	24.4	42.7	21.9	5.4	3.9	6.2
South Carolina	21	97	112	477	1,022	582	562	0.4	4.3	4.9	4.8	18.9	19.6	12.8
South Dakota	12	265	287	200	226	536	1,004	0.1	1.8	5.1	3.3	4.4	4.2	6.3
Tennessee	30	124	180	293	883	716	605	0.2	2.7	2.3	3.5	6.6	10.0	10.3
Texas	12	88	124	351	953	680	496	0.2	2.7	2.9	2.8	16.5	19.3	11.2
Utah	28	118	161	391	558	371	652	0.2	1.3	2.1	1.8	4.2	3.2	1.6
Vermont	47	92	18	36	33	34	21	2.1	5.6	1.1	0.2	0.2	0.2	-
Virginia	15	171	337	213	318	360	324	0.1	6.3	9.6	4.5	4.8	4.8	7.4
Washington	69	125	105	154	318	249	182	3.0	7.8	4.0	2.7	4.2	4.6	2.9
West Virginia	9	54	49	50	209	201	312	0.1	2.4	1.7	1.0	1.3	5.5	7.6
Wisconsin	23	97	201	224	434	407	832	0.4	5.0	4.8	3.4	2.6	3.2	3.5
Wyoming	21	76	59	101	214	193	364	-	1.2	1.6	0.7	1.0	1.9	2.2
<b>United States</b>	<b>56</b>	<b>264</b>	<b>217</b>	<b>256</b>	<b>574</b>	<b>438</b>	<b>361</b>	<b>1.2</b>	<b>17.5</b>	<b>12.8</b>	<b>7.0</b>	<b>7.9</b>	<b>8.9</b>	<b>7.0</b>

Yellow highlighting denotes the month during which each state had its highest number of new COVID cases and deaths per 100,000 population.



# State-Level Findings: Cases and Deaths as Percentage of Population Over the Course of the Pandemic

- Nationally through September 30, 2.2% of the US population has a confirmed COVID diagnosis, with 2.9% of these confirmed cases resulting in death. The percentage of the population with a confirmed COVID diagnosis as of September 30 ranges from a high of 3.6% in Louisiana to a low of 0.3% in Vermont.
- While we have been wary of focusing on confirmed cases given the uncertain (but clearly large) extent to which persons contracting COVID have not been classified as a “confirmed case,” the above figures, as well as being above 200,000 COVID-related deaths, do not bode well in terms of overcoming the virus by way of herd immunity.

# Percentage of Population with Confirmed COVID Diagnosis Over the Course of the Pandemic versus the Month of September, Alabama through Kansas

State	Rank, Population per Square Mile	Percentage of Population with Confirmed COVID Diagnosis, Jan - Sept	Rank, Percentage of Population with Confirmed COVID Diagnosis, Jan - Sept	Percentage of Population with Confirmed COVID Diagnosis, September 1 - 30	Rank, Percentage of Population with Confirmed COVID Diagnosis, September 1 - 30
Alabama	28	3.2%	4	0.58%	11
Alaska	51	1.2%	44	0.36%	27
Arizona	33	3.0%	5	0.23%	39
Arkansas	35	2.8%	11	0.74%	5
California	12	2.1%	28	0.27%	33
Colorado	38	1.2%	41	0.23%	38
Connecticut	5	1.6%	36	0.13%	46
Delaware	7	2.1%	25	0.33%	29
District of Columbia	1	2.2%	24	0.19%	42
Florida	9	3.3%	3	0.39%	24
Georgia	18	2.8%	8	0.44%	20
Hawaii	14	0.9%	46	0.29%	32
Idaho	45	2.4%	15	0.58%	13
Illinois	13	2.3%	17	0.47%	19
Indiana	17	1.8%	32	0.39%	25
Iowa	37	2.8%	10	0.76%	4
Kansas	42	2.1%	26	0.60%	10

Yellow highlighting indicates a top ten ranking in each category.



# Percentage of Population with Confirmed COVID Diagnosis Over the Course of the Pandemic versus the Month of September, Kentucky through North Carolina

State	Rank, Population per Square Mile	Percentage of Population with Confirmed COVID Diagnosis, Jan - Sept	Rank, Percentage of Population with Confirmed COVID Diagnosis, Jan - Sept	Percentage of Population with Confirmed COVID Diagnosis, September 1 - 30	Rank, Percentage of Population with Confirmed COVID Diagnosis, September 1 - 30
Kentucky	24	1.6%	35	0.49%	18
Louisiana	26	3.6%	1	0.40%	23
Maine	40	0.4%	50	0.06%	49
Maryland	6	2.1%	29	0.27%	34
Massachusetts	4	1.9%	31	0.05%	50
Michigan	19	1.4%	38	0.25%	37
Minnesota	31	1.8%	33	0.41%	21
Mississippi	34	3.3%	2	0.51%	16
Missouri	29	2.1%	27	0.69%	7
Montana	49	1.2%	42	0.54%	15
Nebraska	44	2.4%	16	0.58%	12
Nevada	43	2.6%	13	0.35%	28
New Hampshire	22	0.6%	49	0.07%	48
New Jersey	2	2.3%	20	0.15%	45
New Mexico	46	1.4%	37	0.19%	41
New York	8	2.3%	19	0.12%	47
North Carolina	15	2.0%	30	0.41%	22

Yellow highlighting indicates a top ten ranking in each category.

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# Percentage of Population with Confirmed COVID Diagnosis Over the Course of the Pandemic versus the Month of September, North Dakota through Wyoming, Including US Totals

State	Rank, Population per Square Mile	Percentage of Population with Confirmed COVID Diagnosis, Jan - Sept	Rank, Percentage of Population with Confirmed COVID Diagnosis, Jan - Sept	Percentage of Population with Confirmed COVID Diagnosis, September 1 - 30	Rank, Percentage of Population with Confirmed COVID Diagnosis, September 1 - 30
North Dakota	48	2.9%	7	1.32%	1
Ohio	11	1.3%	39	0.26%	36
Oklahoma	36	2.2%	23	0.72%	6
Oregon	39	0.8%	48	0.16%	44
Pennsylvania	10	1.3%	40	0.20%	40
Rhode Island	3	2.3%	18	0.26%	35
South Carolina	20	2.9%	6	0.56%	14
South Dakota	47	2.5%	14	1.00%	2
Tennessee	21	2.8%	9	0.61%	9
Texas	25	2.7%	12	0.50%	17
Utah	41	2.3%	21	0.65%	8
Vermont	32	0.3%	51	0.02%	51
Virginia	16	1.7%	34	0.32%	30
Washington	23	1.2%	43	0.18%	43
West Virginia	30	0.9%	47	0.31%	31
Wisconsin	27	2.2%	22	0.83%	3
Wyoming	50	1.0%	45	0.36%	26
<b>United States</b>		<b>0.9%</b>		<b>0.36%</b>	

Yellow highlighting indicates a top ten ranking in each category.



# 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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