

COVID Death Distribution by Age and Gender; Summary of State and County Data on Progression of New Cases

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The Menges Group

Strategic Health Policy & Care Coordination Consulting

Introduction and Overview

- Key tabulations in this edition include quantifying the large extent to which COVID-19 deaths are skewed towards higher age cohorts, along with the gender mix of COVID-19 deaths within each age cohort.
- We have also quantified the rate of new cases during the past week (April 29 – May 6) as compared to the previous week at the county and state levels.
 - New cases continue to occur at a high rate. Nationwide, 189,580 new cases were confirmed during the week of April 29 – May 6. This volume is 7% *below* the previous week, and 12% below the highest weekly total thus far (214,423 new cases were identified during the week of April 1 – April 8). This past week marked the country's 5th highest week in terms of new confirmed cases thus far during the pandemic.
 - In 1,279 counties collectively representing 50% of the US population, the number of new confirmed cases was *higher* this week than the previous week.
 - In 32 states collectively representing 66% of the US population, the number of new confirmed cases were *higher* this week than the previous week. State-specific data are shown on Slides 6 - 8, including DC and the US territories.

Tabulation of COVID Deaths by Age and Gender

Age Group	Share of USA Population	Age Cohort's Share of All COVID Deaths	Female Share of Deaths Within Age Cohort	Male Share of Deaths Within Age Cohort
85+	2%	31%	58%	42%
75-84	4%	27%	43%	57%
65-74	9%	21%	37%	63%
55-64	13%	12%	33%	67%
45-54	13%	5%	29%	71%
0-44	59%	3%	29%	71%
Total	100%	100%	44%	56%

The data source used for tabulating COVID deaths by age and gender is the National Center for Health Statistics: <https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Sex-Age-and-S/9bhg-hcku> Data were downloaded on May 6, at which point over 44,000 COVID deaths were included in these data files.

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Age And Gender Tabulation Observations

- COVID deaths are tremendously skewed towards the older age cohorts. Persons age 0-44 account for 59% of the US population but have experienced only 3% of COVID deaths.
- At the upper end of the age spectrum, persons age 75 and above represent only 6% of the US population but have accounted for a majority (58%) of all COVID deaths.
- Males are perishing from COVID at a higher rate than females within every age cohort. 85+ is the only age cohort where females have accounted for a majority of COVID deaths (58%). However, females represent 64% of all US persons in the 85+ age cohort – the per capita COVID death rate is higher for males in this age cohort as well.

Distribution of US Counties by New Confirmed Cases April 22-29 versus April 29 – May 6

- Half of the US population resides in counties that had more new cases during this past week (April 29 - May 6) than the prior week.
 - 45.6% of Americans live in counties where the number of new confirmed COVID-19 cases decreased April 29 - May 6 relative to April 22 - 29. 65.2% of the nation's confirmed cases and 72.6% of all COVID-attributed deaths to date have occurred in counties that appear to be on the downward slope of new cases per day.
- Only 0.5% of the entire US population lives in one of the 300 counties that have not reported a single confirmed case to date.

	Counties with No Confirmed Cases Through May 6	Counties with More New Cases April 22-29 than April 29 - May 6	Counties with More New Cases April 29 - May 6 than April 22-29	Counties with the Same Number of New Cases April 22-29 and April 29 - May 6
Number of Counties	300	1,089	1,279	532
% of All Counties	9.4%	34.0%	40.0%	16.6%
% Total US Population	0.5%	45.6%	50.0%	4.0%
% Cumulative Cases as of May 6	0.0%	65.2%	33.9%	0.9%
% Cumulative Deaths as of May 6	0.0%	72.6%	26.8%	0.6%

State Table 1 of 3: Alabama through Maine

State	Cumulative Confirmed Cases, as of May 6	Cumulative Confirmed Cases per 100,000 Population, as of May 6	State Rank, Confirmed Cases Per Capita, as of May 6	New Confirmed Cases, April 22-29	New Confirmed Cases, April 29 - May 6	Percent Change in New Confirmed Cases, April 22-29 versus April 29 - May 6	Cumulative COVID-19 Deaths, as of May 6	COVID-19 Deaths Per 100,000 Population, as of May 6	State Rank, COVID-19 Deaths Per Capita, as of May 6	Deaths as Percentage of Confirmed Cases, as of May 6
Alabama	8,691	177	28	1,315	1,766	34%	343	7.0	26	3.9%
Alaska	370	51	49	20	17	-15%	8	1.1	51	2.2%
Arizona	9,707	133	38	1,743	2,505	44%	426	5.9	34	4.4%
Arkansas	3,611	120	43	815	404	-50%	87	2.9	44	2.4%
California	60,787	154	32	11,331	11,883	5%	2,478	6.3	31	4.1%
Colorado	17,720	308	17	3,802	3,040	-20%	919	16.0	14	5.2%
Connecticut	30,995	869	5	4,345	4,228	-3%	2,718	76.2	3	8.8%
Delaware	5,778	593	8	1,455	1,123	-23%	193	19.8	13	3.3%
District of Columbia	5,461	774	6	900	1,355	51%	277	39.2	7	5.1%
Florida	37,994	177	29	4,884	4,809	-2%	1,538	7.2	25	4.0%
Georgia	29,724	280	19	4,201	5,424	29%	1,309	12.3	16	4.4%
Hawaii	616	44	50	19	11	-42%	17	1.2	50	2.8%
Idaho	2,158	121	42	143	327	129%	67	3.7	40	3.1%
Illinois	68,164	538	9	15,284	17,809	17%	2,977	23.5	11	4.4%
Indiana	22,286	331	14	4,730	5,118	8%	1,377	20.5	12	6.2%
Iowa	10,404	330	15	3,076	3,561	16%	219	6.9	27	2.1%
Kansas	5,895	202	23	1,507	2,096	39%	163	5.6	35	2.8%
Kentucky	5,946	133	39	1,131	1,408	24%	286	6.4	29	4.8%
Louisiana	30,399	654	7	2,402	2,739	14%	2,094	45.0	5	6.9%
Maine	1,254	93	46	149	198	33%	62	4.6	37	4.9%

Yellow highlighting denotes the ten states with the highest per capita rates of cases and deaths.



State Table 2 of 3: Maryland through Rhode Island

State	Cumulative Confirmed Cases, as of May 6	Cumulative Confirmed Cases per 100,000 Population, as of May 6	State Rank, Confirmed Cases Per Capita, as of May 6	New Confirmed Cases, April 22-29	New Confirmed Cases, April 29 - May 6	Percent Change in New Confirmed Cases, April 22-29 versus April 29 - May 6	Cumulative COVID-19 Deaths, as of May 6	COVID-19 Deaths Per 100,000 Population, as of May 6	State Rank, COVID-19 Deaths Per Capita, as of May 6	Deaths as Percentage of Confirmed Cases, as of May 6
Maryland	28,263	467	10	6,074	7,414	22%	1,443	23.9	10	5.1%
Massachusetts	72,025	1,045	3	17,321	11,760	-32%	4,420	64.1	4	6.1%
Michigan	45,048	451	11	6,431	4,687	-27%	4,250	42.6	6	9.4%
Minnesota	8,579	152	34	1,923	3,935	105%	485	8.6	20	5.7%
Mississippi	8,424	283	18	1,675	1,855	11%	374	12.6	15	4.4%
Missouri	9,164	138	36	1,291	1,738	35%	429	6.5	28	4.7%
Montana	456	43	51	12	5	-58%	16	1.5	48	3.5%
Nebraska	6,781	351	13	2,054	2,905	41%	86	4.4	38	1.3%
Nevada	5,774	187	26	852	840	-1%	286	9.3	19	5.0%
New Hampshire	2,741	202	25	468	687	47%	111	8.2	23	4.0%
New Jersey	131,890	1,485	2	20,853	15,626	-25%	8,549	96.2	2	6.5%
New Mexico	4,291	205	22	1,002	1,078	8%	169	8.1	24	3.9%
New York	320,344	1,647	1	40,524	23,262	-43%	21,363	109.8	1	6.7%
North Carolina	12,783	122	41	2,727	2,836	4%	497	4.7	36	3.9%
North Dakota	1,323	174	31	354	290	-18%	31	4.1	39	2.3%
Ohio	21,576	185	27	3,186	4,273	34%	1,225	10.5	18	5.7%
Oklahoma	4,201	106	45	579	728	26%	253	6.4	30	6.0%
Oregon	2,916	69	48	387	470	21%	115	2.7	46	3.9%
Pennsylvania	54,989	430	12	9,428	8,798	-7%	3,360	26.2	9	6.1%
Rhode Island	10,205	963	4	2,747	1,958	-29%	370	34.9	8	3.6%

Yellow highlighting denotes the ten states with the highest per capita rates of cases and deaths.

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

State	Cumulative Confirmed Cases, as of May 6	Cumulative Confirmed Cases per 100,000 Population, as of May 6	State Rank, Confirmed Cases Per Capita, as of May 6	New Confirmed Cases, April 22-29	New Confirmed Cases, April 29 - May 6	Percent Change in New Confirmed Cases, April 22-29 versus April 29 - May 6	Cumulative COVID-19 Deaths, as of May 6	COVID-19 Deaths Per 100,000 Population, as of May 6	State Rank, COVID-19 Deaths Per Capita, as of May 6	Deaths as Percentage of Confirmed Cases, as of May 6
South Carolina	6,936	135	37	1,120	1,055	-6%	305	5.9	33	4.4%
South Dakota	2,779	314	16	517	404	-22%	29	3.3	43	1.0%
Tennessee	13,796	202	24	2,608	3,484	34%	246	3.6	41	1.8%
Texas	35,438	122	40	6,067	7,602	25%	985	3.4	42	2.8%
Utah	5,605	175	30	1,048	1,106	6%	59	1.8	47	1.1%
Vermont	908	146	35	39	46	18%	53	8.5	21	5.8%
Virginia	20,256	237	20	4,696	5,295	13%	713	8.4	22	3.5%
Washington	16,713	219	21	1,839	2,335	27%	881	11.6	17	5.3%
West Virginia	1,277	71	47	171	167	-2%	51	2.8	45	4.0%
Wisconsin	8,901	153	33	1,675	2,381	42%	362	6.2	32	4.1%
Wyoming	631	109	44	78	227	191%	7	1.2	49	1.1%
50 States + DC	1,222,973	372		202,998	189,068	-7%	69,081	21.0		5.6%
Territories										
American Samoa	-	-		-	-	NA	-	-		
Guam	1,118	664		199	8	-96%	6	3.6		0.5%
Northern Mariana Islands	15	26		-	1	NA	2	3.5		13.3%
Puerto Rico	1,968	65		550	503	-9%	99	3.3		5.0%
Virgin Islands	66	63		12	-	-100%	4	3.8		6.1%
Territories Subtotal	3,167	93		761	512	-33%	111	3.2		3.5%
United States and Territories	1,226,140	369		203,759	189,580	-7%	69,192	20.8		5.6%

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State-Level Findings

- The number of new confirmed cases per day has declined nationally (25,583 new confirmed cases on May 6) as compared to the peak on April 24 (37,137 new confirmed cases) – but is still extremely high.
- In 32 states collectively representing 66% of the US population, the number of new confirmed cases were higher this week than the previous week. The 5 jurisdictions with the sharpest **increase** in confirmed cases per day this past week are Wyoming (191% increase), Idaho (129%), Minnesota (105%), the District of Columbia (51%), and New Hampshire (47%).
- The 5 states experiencing the sharpest **decrease** in the average number of confirmed cases per day during the past week (relative to the previous week) are Montana (58% reduction), Arkansas (50%), New York (43%), Hawaii (42%), and Massachusetts (32%).

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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