



## National Center for Health Statistics

# Weekly Updates by Select Demographic and Geographic Characteristics

Provisional Death Counts for Coronavirus Disease 2019 (COVID-19)

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Updated: September 23, 2020

 Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of September 23, 2020. Death counts are delayed and may differ from other published sources (see Technical Notes). Counts will be updated every Wednesday by 5pm. Additional information will be added to this site as available.

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## Age and sex

Table 1 has counts of death involving COVID-19 and select causes of death by sex and age group for the United States. For data on sex and age at the state level, [Click here to download](#). For data on sex and age by week,

[Click here to download](#).

**NOTICE TO USERS: The data file for deaths by sex and age at the state level has been updated on September 2, 2020 to include the following age groups in addition to the age groups that are routinely included: 0-17, 18-29, 30-49, and 50-64. The new age groups are consistent with categories used across CDC COVID-19 surveillance pages. When analyzing the file, the user should make sure to select only the desired age groups. Summing across all age categories provided will result in double counting deaths from certain age groups.**

Data on deaths involving COVID-19 among ages 0–18 are available here: [Click here to download](#).

### Table 1. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by sex and age group. United States. Week ending 2/1/2020 to 9/19/2020

Updated September 23, 2020

Sex	Age group	All Deaths involving COVID-19 (U07.1) <sup>1</sup>	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0-J18.9) <sup>2</sup>	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0-J18.9) <sup>2</sup>	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09-J11) <sup>3</sup>	Deaths involving Pneumonia, Influenza, or COVID-19 (U07.1 or J09-J18.9) <sup>4</sup>	Population <sup>5</sup>
<b>Total</b>								
	All ages	<b>188,470</b>	2,022,937	192,312	84,930	6,699	301,553	327,167,434
	Under 1 year	<b>20</b>	11,313	105	3	16	138	3,848,208
	1–4 years	<b>15</b>	2,158	73	2	42	128	15,962,067
	5–14 years	<b>31</b>	3,356	102	8	52	177	41,075,169
	15–24 years	<b>353</b>	21,615	438	128	53	712	42,970,800
	25–34 years	<b>1,457</b>	44,521	1,610	651	151	2,553	45,697,774
	35–44 years	<b>3,809</b>	62,852	3,643	1,693	250	5,979	41,277,888
	45–54 years	<b>10,057</b>	115,528	9,425	4,698	577	15,256	41,631,699
	55–64 years	<b>23,991</b>	264,573	25,205	11,661	1,240	38,556	42,272,636
	65–74 years	<b>40,613</b>	401,024	42,712	19,609	1,453	64,930	30,492,316
	75–84							

years	<b>49,871</b>	489,060	52,492	23,175	1,478	80,458	15,394,374
85 years and over	<b>58,253</b>	606,937	56,507	23,302	1,387	92,666	6,544,503
<b>Males</b>							
All ages	<b>101,819</b>	1,055,478	105,296	47,857	3,452	162,096	161,128,679
Under 1 year	<b>13</b>	6,246	65	2	8	84	1,968,505
1-4 years	<b>7</b>	1,256	36	1	25	67	8,163,697
5-14 years	<b>22</b>	1,984	53	7	23	91	20,974,830
15-24 years	<b>218</b>	16,029	273	80	27	435	21,976,455
25-34 years	<b>969</b>	31,445	998	422	76	1,612	23,210,709
35-44 years	<b>2,601</b>	41,436	2,312	1,158	133	3,865	20,587,600
45-54 years	<b>6,861</b>	72,586	5,904	3,217	342	9,818	20,541,202
55-64 years	<b>15,570</b>	163,021	15,357	7,507	705	23,976	20,398,863
65-74 years	<b>24,966</b>	233,035	25,664	12,137	812	39,150	14,246,085
75-84 years	<b>27,407</b>	254,170	29,385	13,075	735	44,334	6,735,040
85 years and over	<b>23,185</b>	234,270	25,249	10,251	566	38,664	2,325,693
<b>Females</b>							
All ages	<b>86,647</b>	967,377	87,010	37,069	3,246	139,450	166,038,755
Under 1 year	<b>7</b>	5,047	40	1	8	54	1,879,703
1-4 years	<b>8</b>	902	37	1	17	61	7,798,370
5-14 years	<b>9</b>	1,372	49	1	29	86	20,100,339
15-24 years	<b>135</b>	5,585	165	48	26	277	20,994,345
25-34 years	<b>488</b>	13,074	612	229	75	941	22,487,065
35-44 years	<b>1,208</b>	21,411	1,331	535	117	2,114	20,690,288
45-54 years	<b>3,195</b>	42,939	3,520	1,480	235	5,437	21,090,497
55-64 years	<b>8,421</b>	101,545	9,847	4,154	534	14,578	21,873,773

65-74 years	<b>15,646</b>	167,977	17,047	7,471	641	25,779	16,246,231
75-84 years	<b>22,463</b>	234,876	23,105	10,099	743	36,122	8,659,334
85 years and over	<b>35,067</b>	372,649	31,257	13,050	821	54,001	4,218,810

NOTE: Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period. Counts of death occurring before or after the reporting period are not included in the table.

\*Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more, depending on the jurisdiction and cause of death.

<sup>1</sup>Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1

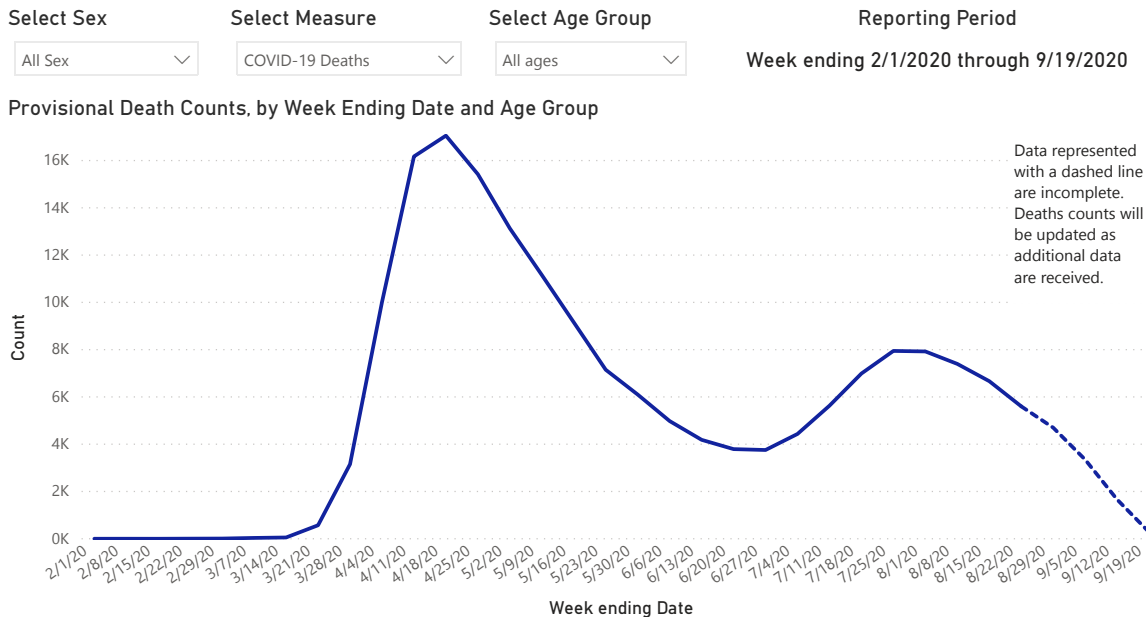
<sup>2</sup>Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

<sup>3</sup>Counts of deaths involving influenza include deaths with pneumonia or COVID-19 also listed as a cause of death.

<sup>4</sup>Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

<sup>5</sup>Population is based on 2018 postcensal estimates from the U.S. Census Bureau

### Provisional Death Counts for Coronavirus Disease 2019 (COVID-19) By Week of Death



**NOTE:** Provisional death counts are based on death certificate data received and coded by NCHS as of the date of analysis and do not represent all deaths that occurred in that period. Data for the most recent 5 weeks (shown with dashed line) are typically less than 90% complete, with lower levels of completeness in more recent weeks. Death counts are updated as additional deaths are received and coded.

**SOURCE:** NCHS Multiple Cause of Death Data, Final Data for 2019

Data by race and Hispanic origin are available at the national, state, and county level. Data by race and Hispanic origin is also available by age at the national and state level. [Click here](#) to visit the NCHS Health Disparities: Race and Hispanic origin page.

## Place of death

Table 2 presents death counts of COVID-19 and other select causes of death by the place of death. For data on place of death at the state level, [Click here to download](#).

For data on place of death by age group, state, and HHS Region, [Click here to download](#).

### ▼ Table 2. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by place of death, United States. Week ending 2/1/2020 to 9/19/2020.\*

Updated September 23, 2020

Place of death	All Deaths involving COVID-19 (U07.1) <sup>1</sup>	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0-J18.9) <sup>2</sup>	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0-J18.9) <sup>2</sup>	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09-J11) <sup>3</sup>
Total	<b>188,470</b>	2,022,937	192,312	84,930	6,699
Healthcare setting, inpatient	<b>122,607</b>	590,922	137,251	67,648	4,057
Healthcare setting, outpatient or emergency room	<b>6,636</b>	119,959	6,357	2,185	240
Healthcare setting, dead on arrival	<b>181</b>	5,785	137	44	11
Decedent's home	<b>10,116</b>	683,183	13,068	2,084	1,445
Hospice facility	<b>5,526</b>	126,874	9,143	2,524	317
Nursing home/long term care facility	<b>40,084</b>	356,445	23,149	9,561	530
Other	<b>3,252</b>	137,462	3,129	859	99
Place of death unknown	<b>68</b>	2,307	78	25	0

NOTE: Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period. Counts of deaths occurring before or after the reporting period are not included in the table.

\*Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more, depending on the jurisdiction and cause of death.

<sup>1</sup>Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1.

<sup>2</sup>Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

<sup>3</sup>Counts of deaths involving influenza include deaths with pneumonia or COVID-19 also listed as a cause of death.

## Comorbidities



diseases	I60-I69	9,034	7	28	96	324	1,021	2,059	2,640	2,858
Other diseases of the circulatory system	I00-I09, I26-I43, I51, I52, I70-I99	10,404	48	115	247	590	1,379	2,325	2,584	3,116
<b>Sepsis</b>	A40-A41	16,997	42	157	419	1,284	2,944	4,695	4,276	3,180
<b>Malignant neoplasms</b>	C00-C97	8,583	31	40	104	322	1,174	2,248	2,563	2,101
<b>Diabetes</b>	E10-E14	30,517	50	202	706	2,082	5,057	8,232	8,151	6,036
<b>Obesity</b>	E65-E68	6,863	95	332	749	1,214	1,716	1,658	852	246
<b>Alzheimer disease</b>	G30	6,626	0	0	0	2	54	439	1,955	4,176
<b>Vascular and unspecified dementia</b>	F01, F03	21,111	0	0	2	24	315	1,991	6,257	12,522
<b>Renal failure</b>	N17-N19	16,405	22	134	348	1,068	2,490	4,236	4,301	3,804
<b>Intentional and unintentional injury, poisoning and other adverse events</b>	S00-T98, V01-X59, X60-X84, X85-Y09, Y10-Y36, Y40-Y89, U01-U03	6,171	53	167	215	385	746	1,197	1,470	1,938
<b>All other conditions and causes (residual)</b>	A00-A39, A42-B99, D00-E07, E15-E64, E70-E90, F00, F02, F04-G26, G31-H95, K00-K93, L00-M99, N00-N16, N20-N99, O00-O99, P00-P96, Q00-Q99, R00-R08, R09.0, R09.1, R09.3, R09.8, R10-R99	92,502	317	840	1,891	5,088	12,518	21,698	24,251	25,891

NOTE: Number of conditions reported in this table are tabulated from deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period. Data for this table are derived from a cut of the NVSS database taken at a particular time, separate from other surveillance tables on this page which are tabulated on the date of update. As a result, the total number of COVID-19 deaths in this table may not match other surveillance tables on this page.

\*Data during the period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more.

<sup>1</sup>Conditions contributing to the death were identified using the International Classification of Diseases, Tenth Revision (ICD-10). Deaths involving more than one condition (e.g., deaths involving both diabetes and respiratory arrest) were counted in both totals. To avoid counting the same death multiple times, the numbers for different conditions should not be summated.

<sup>2</sup>Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1



## Excess deaths

See the [NCHS Excess Deaths Data Visualization](#).

This data visualization presents data on weekly counts of all-cause mortality by jurisdiction of occurrence. Counts of deaths in the most recent weeks are compared with historical trends to determine whether the number of deaths in recent weeks is significantly higher than expected.

## State and County Data Files

### Weekly Counts of Deaths by State and Select Causes

- [Final data for 2014–2018](#)  – Weekly counts of leading causes of death based on final underlying cause mortality data for years 2014–2018.
- [Provisional data for 2019–2020](#)  – Weekly counts of leading causes of death based on provisional underlying cause mortality data for 2019–2020, updated weekly.

### [Provisional COVID-19 Death Counts in the United States by County](#)

- This file includes deaths involving COVID-19 (coded to ICD-10 code U07.1) and total deaths per county. Counties included in this table had 10 or more COVID-19 deaths at the time of analysis.



## Understanding the Numbers: Provisional Death Counts and COVID-19

*Provisional death counts deliver the most complete and accurate picture of lives lost to COVID-19. They are based on death certificates, which are the most reliable source of data and contain information not available anywhere else, including comorbid conditions, race and ethnicity, and place of death.*

### How it Works

**The National Center for Health Statistics (NCHS) uses incoming data from death certificates to produce provisional COVID-19 death counts.** These include deaths occurring within the 50 states and the District of Columbia.

**NCHS also provides summaries that examine deaths in specific categories and in greater geographic detail,** such as deaths by county and by race and Hispanic origin.

**COVID-19 deaths are identified using a new ICD-10 code.** When COVID-19 is reported as a cause of death – or when it is listed as a “probable” or “presumed” cause — the death is coded as **U07.1**. This can include cases with or without laboratory confirmation.

### Why These Numbers are Different

Provisional death counts may not match counts from other sources, such as media reports or numbers from county health departments. Counts by NCHS often track 1–2 weeks behind other data.

- **Death certificates take time to be completed.** There are many steps to filling out and submitting a death certificate. Waiting for test results can create additional delays.
- **States report at different rates.** Currently, 63% of all U.S. deaths are reported within 10 days of the date of death, but there is significant variation between states.
- **It takes extra time to code COVID-19 deaths.** While 80% of deaths are electronically processed and coded by NCHS within minutes, most deaths from COVID-19 must be coded by a person, which takes an average of 7 days.
- **Other reporting systems use different definitions or methods for counting deaths.**

### Things to know about the data

**Provisional counts are not final and are subject to change.** Counts from previous weeks are continually revised as more records are received and processed.

**Provisional data are not yet complete.** Counts will not include all deaths that occurred during a given time period, especially for more recent periods. However, we can estimate how complete our numbers are by looking at the average number of deaths reported in previous years.

**Death counts should not be compared across states.** Some states report deaths on a daily basis, while other states report deaths weekly or monthly. State vital record reporting may also be affected or delayed by COVID-19 related response activities.

For more detailed technical information, visit the [Provisional Death Counts for Coronavirus Disease 2019 \(COVID-19\) Technical Notes](#) page.

