



## 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 30, 2020

 Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of September 30, 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.

### List of Topics

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For the Index of Provisional COVID-19 Mortality Surveillance and Ad-hoc Data Files, [click here](#).

### 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 9/26/2020**

Updated September 30, 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>194,091</b>	2,087,504	197,973	87,714	6,705	310,055	327,167,43
	Under 1 year	<b>20</b>	11,719	105	3	16	138	3,848,20
	1–4 years	<b>15</b>	2,233	75	2	42	130	15,962,06
	5–14 years	<b>32</b>	3,476	106	8	52	182	41,075,16
	15–24 years	<b>362</b>	22,385	455	131	53	735	42,970,80
	25–34 years	<b>1,513</b>	46,033	1,664	673	151	2,641	45,697,77
	35–44 years	<b>3,956</b>	65,059	3,748	1,751	250	6,173	41,277,88
	45–54 years	<b>10,389</b>	119,436	9,754	4,871	577	15,744	41,631,69

55-64 years	<b>24,772</b>	273,191	26,025	12,079	1,240	39,739	42,272,63
65-74 years	<b>41,866</b>	413,865	44,018	20,292	1,457	66,808	30,492,31
75-84 years	<b>51,365</b>	504,433	54,045	23,954	1,480	82,728	15,394,37
85 years and over	<b>59,801</b>	625,674	57,978	23,950	1,387	95,037	6,544,50

**Males**

All ages	<b>104,896</b>	1,089,340	108,473	49,465	3,455	166,745	161,128,67
Under 1 year	<b>13</b>	6,487	65	2	8	84	1,968,50
1-4 years	<b>7</b>	1,305	37	1	25	68	8,163,69
5-14 years	<b>22</b>	2,062	54	7	23	92	20,974,83
15-24 years	<b>223</b>	16,595	283	82	27	448	21,976,45
25-34 years	<b>1,003</b>	32,519	1,033	435	76	1,668	23,210,70
35-44 years	<b>2,698</b>	42,918	2,383	1,199	133	3,992	20,587,60
45-54 years	<b>7,063</b>	75,065	6,101	3,323	342	10,111	20,541,20
55-64 years	<b>16,067</b>	168,282	15,858	7,779	705	24,702	20,398,86
65-74 years	<b>25,722</b>	240,467	26,462	12,554	813	40,288	14,246,08
75-84 years	<b>28,239</b>	262,137	30,261	13,530	737	45,589	6,735,04
85 years and over	<b>23,839</b>	241,503	25,936	10,553	566	39,703	2,325,69

**Females**

All ages	<b>89,191</b>	998,082	89,493	38,245	3,249	143,302	166,038,75
Under 1 year	<b>7</b>	5,212	40	1	8	54	1,879,70
1-4 years	<b>8</b>	928	38	1	17	62	7,798,37
5-14 years	<b>10</b>	1,414	52	1	29	90	20,100,33

15-24 years	<b>139</b>	5,789	172	49	26	287	20,994,34
25-34 years	<b>510</b>	13,512	631	238	75	973	22,487,06
35-44 years	<b>1,258</b>	22,136	1,365	552	117	2,181	20,690,28
45-54 years	<b>3,325</b>	44,368	3,652	1,547	235	5,632	21,090,49
55-64 years	<b>8,705</b>	104,901	10,166	4,300	534	15,035	21,873,77
65-74 years	<b>16,143</b>	173,389	17,555	7,737	644	26,519	16,246,23
75-84 years	<b>23,125</b>	242,282	23,782	10,423	743	37,137	8,659,33
85 years and over	<b>35,961</b>	384,151	32,040	13,396	821	55,332	4,218,81

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.

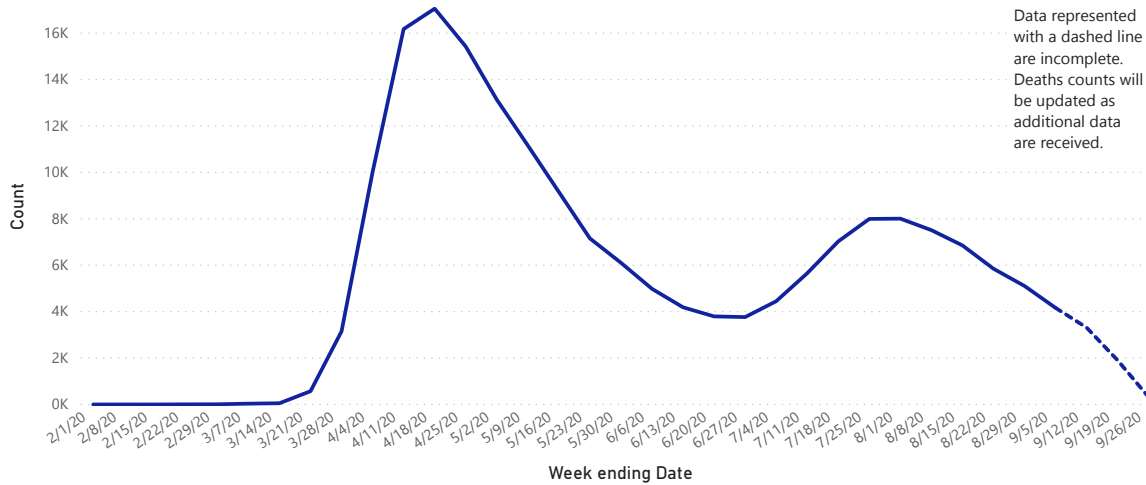
<sup>4</sup>Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

<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

Select Sex:  | Select Measure:  | Select Age Group:  | Reporting Period:

Provisional Death Counts, by Week Ending Date and Age Group



**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.

## Race and Hispanic origin

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 9/26/2020.\***

Updated September 30, 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	194,091	2,087,504	197,973	87,714	6,705
Healthcare setting, inpatient	126,357	610,157	141,425	69,910	4,062
Healthcare setting, outpatient or emergency room	6,819	123,902	6,509	2,239	242
Healthcare setting, dead on arrival	185	5,983	138	45	11
Decedent's home	10,456	706,014	13,467	2,162	1,445
Hospice facility	5,758	130,766	9,459	2,648	317
Nursing home/long term care facility	41,089	366,483	23,687	9,788	529
Other	3,358	142,170	3,227	897	99
Place of death unknown	69	2,029	61	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

Table 3 shows the types of health conditions and contributing causes mentioned in conjunction with deaths involving coronavirus disease 2019 (COVID-19). For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.6 additional conditions or causes per death. The number of deaths with each condition or cause is shown for all deaths and by age groups. For data on comorbidities,

 [Click here to download](#)

▼ **Table 3. Conditions contributing to deaths involving coronavirus disease 2019 (COVID-19), by age group, United States. Week ending 2/1/2020 to 9/26/2020.\***

Updated September 30, 2020

	Number of Conditions

		Age Group								
Conditions Contributing to Deaths where COVID-19 was listed on the death certificate <sup>1</sup>	ICD-10 codes	All ages	0-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Total COVID-19 deaths <sup>2</sup> , as of 9/26/2020	U071	191,211	426	1,487	3,867	10,221	24,387	41,206	50,585	59,026
<b>Respiratory diseases</b>		-	-	-	-	-	-	-	-	-
Influenza and pneumonia	J09-J18	82,417	150	682	1,751	4,883	11,684	18,954	21,949	22,362
Chronic lower respiratory diseases	J40-J47	16,530	31	73	165	471	1,773	3,978	5,244	4,794
Adult respiratory distress syndrome	J80	25,150	73	278	725	2,095	4,467	6,649	6,090	4,771
Respiratory failure	J96	66,156	130	481	1,248	3,705	8,892	15,471	18,234	17,993
Respiratory arrest	R09.2	3,896	9	30	77	186	441	803	1,027	1,323
Other diseases of the respiratory system	J00-J06, J20-J39, J60-J70, J81-J86, J90-J95, J97-J99, U04	6,955	25	61	150	371	913	1,506	1,869	2,060
<b>Circulatory diseases</b>		-	-	-	-	-	-	-	-	-
Hypertensive diseases	I10-I15	41,893	19	123	549	1,822	5,088	9,256	11,540	13,496
Ischemic heart disease	I20-I25	21,739	2	30	115	523	1,998	4,503	6,608	7,959
Cardiac arrest	I46	23,592	60	225	561	1,568	3,466	5,385	5,902	6,425
Cardiac arrhythmia	I44, I45, I47-I49	12,086	11	28	74	282	898	2,202	3,588	5,003
Heart failure	I50	12,671	6	45	99	336	1,088	2,197	3,526	5,374
Cerebrovascular diseases	I60-I69	9,377	7	28	97	346	1,077	2,128	2,723	2,970
Other diseases of the circulatory system	I00-I09, I26-I43, I51, I52, I70-I99	10,764	51	116	253	610	1,422	2,419	2,678	3,215
<b>Sepsis</b>	A40-A41	17,613	44	164	432	1,327	3,089	4,879	4,416	3,262

<b>Malignant neoplasms</b>	C00–C97	8,856	32	40	109	334	1,204	2,324	2,658	2,155
<b>Diabetes</b>	E10–E14	31,483	51	208	718	2,158	5,240	8,518	8,387	6,203
<b>Obesity</b>	E65–E68	7,134	97	345	768	1,257	1,788	1,735	892	252
<b>Alzheimer disease</b>	G30	6,874	0	0	0	2	57	453	2,032	4,330
<b>Vascular and unspecified dementia</b>	F01, F03	21,665	0	0	2	24	328	2,035	6,430	12,846
<b>Renal failure</b>	N17–N19	16,966	23	141	361	1,095	2,579	4,395	4,438	3,932
<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	6,402	50	175	223	396	784	1,249	1,531	1,994
<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	95,926	326	873	1,954	5,275	13,049	22,506	25,092	26,843

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.

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