



Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

Weekly Updates by Select Demographic and Geographic Characteristics

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

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 Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of March 17, 2021. 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](#).

Sex and Age

Table 1 has counts of deaths involving COVID-19 and other select causes of death by time-period in which the death occurred, sex and age group. For data on deaths involving COVID-19 by month, year, jurisdiction, sex, and age, [Click here to download](#). This data file contains two sets of age groups: (1) age-groups consistent with those used across CDC COVID-19 surveillance pages, and (2) age groups that are routinely included in NCHS mortality reports. 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. For data on deaths involving COVID-19 by week, sex, and age (by NCHS age groups), [Click here to download](#). 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 time-period, jurisdiction of occurrence, sex and age-group.

Data as of:
3/17/2021

State			Sex		Age Group				
United States			All		All				
Year in which death occurred	Sex	Age Group	All Deaths involving COVID-19 [1]	Deaths from All Causes	Deaths involving Pneumonia [2]	Deaths involving COVID-19 and Pneumonia [2]	All Deaths involving Influenza [3]	Deaths involving Pneumonia, Influenza, or COVID-19 [4]	
2020/2021	All Sexes	0-17 years	226	37,537	634	42	178	996	
2020/2021	All Sexes	18-29 years	1,866	71,479	2,063	827	150	3,240	
2020/2021	All Sexes	30-39 years	5,485	101,822	4,993	2,514	318	8,260	
2020/2021	All Sexes	40-49 years	14,792	153,493	12,649	7,258	493	20,607	
2020/2021	All Sexes	50-64 years	77,215	648,381	70,813	40,738	2,123	109,091	
2020/2021	All Sexes	65-74 years	113,198	795,802	102,457	60,267	1,932	157,012	
2020/2021	All Sexes	75-84 years	144,064	969,808	125,817	72,833	1,949	198,728	
2020/2021	All Sexes	85 years and over	160,729	1,189,298	126,291	66,724	1,839	221,904	
2020/2021	All Sexes	All Ages	517,575	3,967,620	445,717	251,203	8,982	719,838	
2020/2021	Female	0-17 years	95	15,497	285	19	81	442	
2020/2021	Female	18-29 years	713	19,259	824	345	73	1,262	
2020/2021	Female	30-39 years	1,895	32,733	1,895	863	161	3,081	
2020/2021	Female	40-49 years	5,061	55,778	4,844	2,510	220	7,595	
2020/2021	Female	50-64 years	27,427	247,296	27,254	14,647	893	40,829	
2020/2021	Female	65-74 years	43,745	332,268	40,340	22,841	852	61,991	

Yearly Monthly Total

NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and may 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 recent periods 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. United States death counts include the 50 states, plus the District of Columbia and New York City. New York state estimates exclude New York City.

[1] Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1.

[2] Counts of deaths involving pneumonia (J12.0-J18.9) include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

[3] Counts of deaths involving influenza (J09-J11) include deaths with pneumonia or COVID-19 also listed as a cause of death.

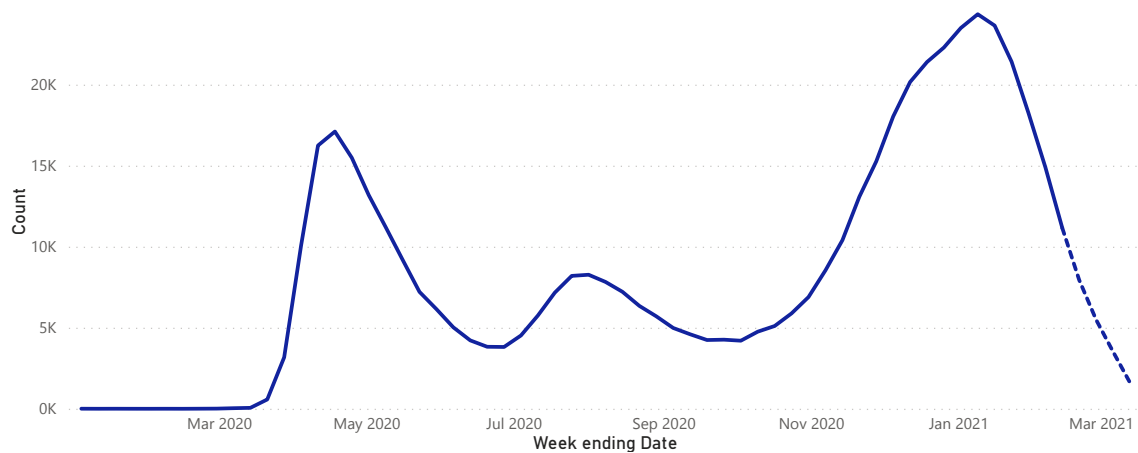
[4] Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

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

Select Sex: All Sex | Select Measure: COVID-19 Deaths | Select Age Group: All Ages | Reporting Period: Week ending 1/4/2020 through 3/13/2021

Data represented with a dashed line are incomplete. Deaths counts will be updated as additional data are received.

Provisional Death Counts, by Week Ending Date and Age Group

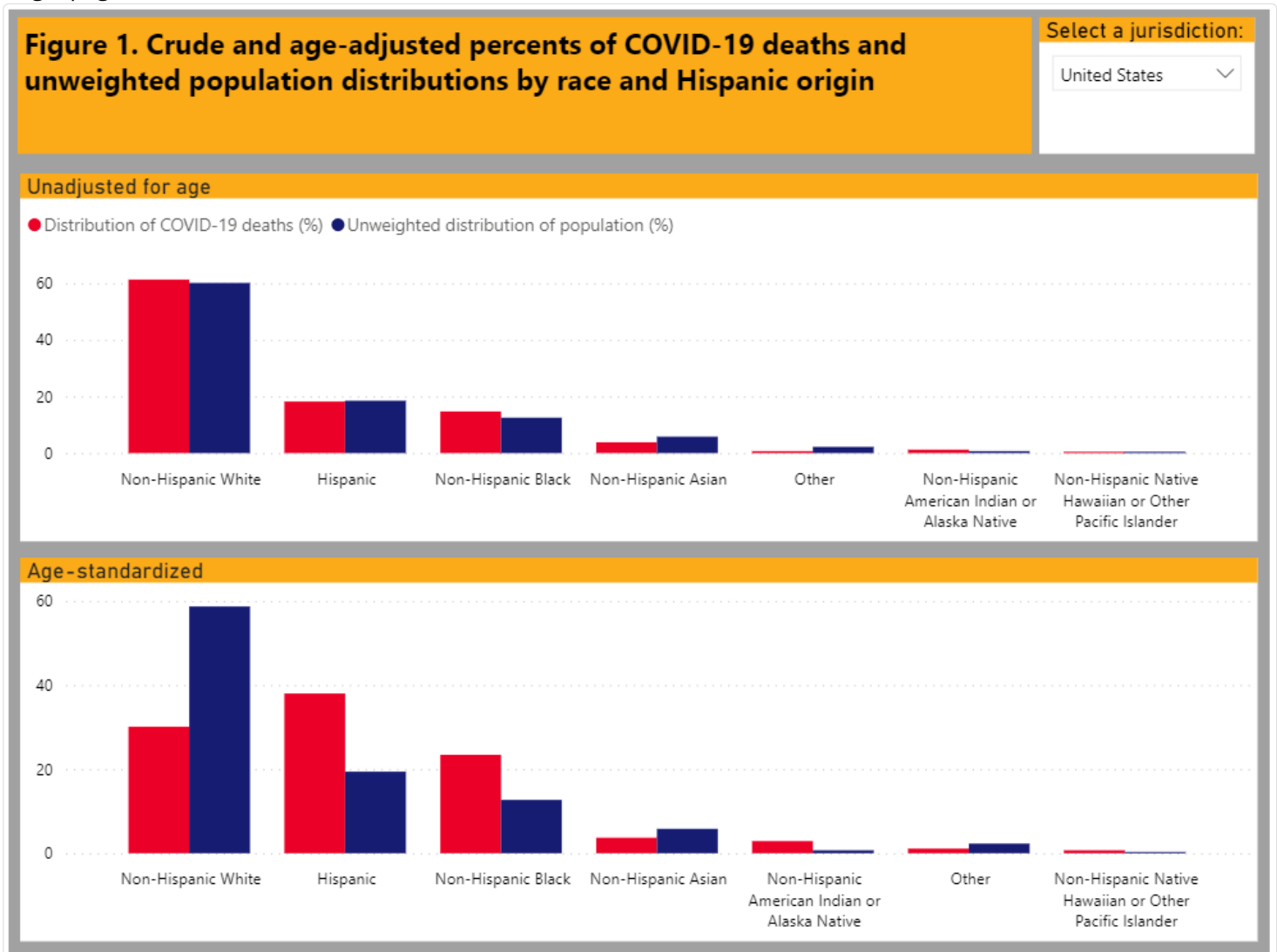


NOTE: Provisional death counts are based on death certificate data received and coded by NCHS as of the date of analysis and do not represent all deaths that occurred in that period. Data for the most recent 5 weeks (shown with dashed line) are typically less than 90% complete, with lower levels of completeness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

SOURCE: NCHS National Vital Statistics System. Estimates are based on provisional data.

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 involving COVID-19 and other select causes of death by time-period in which the death occurred, and the place of death. For data on deaths involving COVID-19 by time-period, jurisdiction and the place of death, [Click here to download](#). For data on deaths involving COVID-19 by time-period, jurisdiction, place of death, and age group, [Click here to download](#).

Table 2. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by time-period, jurisdiction of occurrence, and place of death.

Data as of:
3/17/2021

State		Place of Death		All Deaths involving COVID-19 [1]	Deaths from All Causes	Deaths involving Pneumonia [2]	Deaths involving COVID-19 and Pneumonia [2]	All Deaths involving Influenza [3]	Deaths involving Pneumonia, Influenza, or COVID-19 [4]
Year in which death occurred	State	Place of Death	Place of Death						
2020/2021	United States	Decedent's home		34,515	1,315,500	29,497	8,990	1,714	55,882
2020/2021	United States	Healthcare setting, dead on arrival		448	11,031	284	118	17	631
2020/2021	United States	Healthcare setting, inpatient		336,181	1,234,702	330,451	202,987	5,672	469,021
2020/2021	United States	Healthcare setting, outpatient or emergency room		16,589	231,343	13,000	5,490	378	24,463
2020/2021	United States	Hospice facility		14,848	232,157	19,035	7,347	401	26,923
2020/2021	United States	Nursing home/long term care facility		104,205	673,279	46,158	23,286	649	127,692
2020/2021	United States	Other		10,615	266,406	7,190	2,936	148	14,997
2020/2021	United States	Place of death unknown		184	3,259	111	55	3	242
2020/2021	United States	Total - All Places of Death		517,585	3,967,677	445,726	251,209	8,982	719,851

Yearly
Monthly
Total

NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and may 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 recent periods 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. United States death counts include the 50 states, plus the District of Columbia and New York City. New York state estimates exclude New York City.

[1] Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1.

[2] Counts of deaths involving pneumonia (J12.0-J18.9) include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

[3] Counts of deaths involving influenza (J09-J11) include deaths with pneumonia or COVID-19 also listed as a cause of death.

[4] Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

Comorbidities and other conditions

Table 3 shows the types of health conditions and contributing causes mentioned in conjunction with deaths involving coronavirus disease 2019 (COVID-19). The number of deaths that mention one or more of the conditions indicated is shown for all deaths involving COVID-19 and by age groups. For 6% of these deaths, COVID-19 was the only cause

mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 3.8 additional conditions or causes per death. For data on deaths involving COVID-19 by time-period, jurisdiction, and other health conditions, [Click here to download](#).

Table 3. Number of COVID-19 deaths with contributing conditions, by time-period, jurisdiction of occurrence, and age-group.

Data as of:
3/14/2021

State		Attribute	Condition Group				Condition				
United States		COVID-19 Deaths	All				All				
Year in which death occurred	Conditions contributing to deaths where COVID-19 was listed on the death certificate [1]	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	
2020/2021	Influenza and pneumonia	233,263	326	1,501	4,064	12,137	31,231	55,569	66,383	62,047	
2020/2021	Chronic lower respiratory diseases	45,488	45	142	340	1,060	4,406	10,994	15,286	13,214	
2020/2021	Adult respiratory distress syndrome	53,906	145	534	1,455	4,307	9,942	15,375	13,489	8,657	
2020/2021	Respiratory failure	191,911	259	1,083	3,005	9,297	24,756	46,265	56,302	50,941	
2020/2021	Respiratory arrest	10,944	18	65	159	450	1,204	2,185	3,064	3,799	
2020/2021	Other diseases of the respiratory system	20,503	52	163	396	1,064	2,799	4,926	5,801	5,302	
2020/2021	Hypertensive diseases	102,033	32	287	1,186	3,990	11,670	22,522	28,850	33,495	
2020/2021	Ischemic heart disease	55,985	8	66	281	1,263	4,859	11,698	17,721	20,088	
2020/2021	Cardiac arrest	61,504	112	492	1,296	3,824	8,962	14,559	16,316	15,942	
2020/2021	Cardiac arrhythmia	37,725	23	77	203	735	2,640	6,893	11,745	15,409	
2020/2021	Heart failure	38,905	14	87	270	869	2,873	6,711	11,287	16,793	
2020/2021	Cerebrovascular diseases	25,224	23	71	233	851	2,660	5,447	7,425	8,513	
2020/2021	Other diseases of the circulatory system	31,695	98	264	603	1,605	3,954	7,072	8,714	9,385	
2020/2021	Sepsis	47,989	92	375	1,080	3,213	8,066	13,642	12,930	8,590	
2020/2021	Malignant neoplasms	23,798	56	84	261	836	3,009	6,247	7,416	5,889	
2020/2021	Diabetes	82,088	93	451	1,614	5,042	13,004	22,526	23,131	16,226	
2020/2021	Obesity	19,753	193	789	1,712	3,193	4,985	5,331	2,824	726	

Yearly Monthly Total

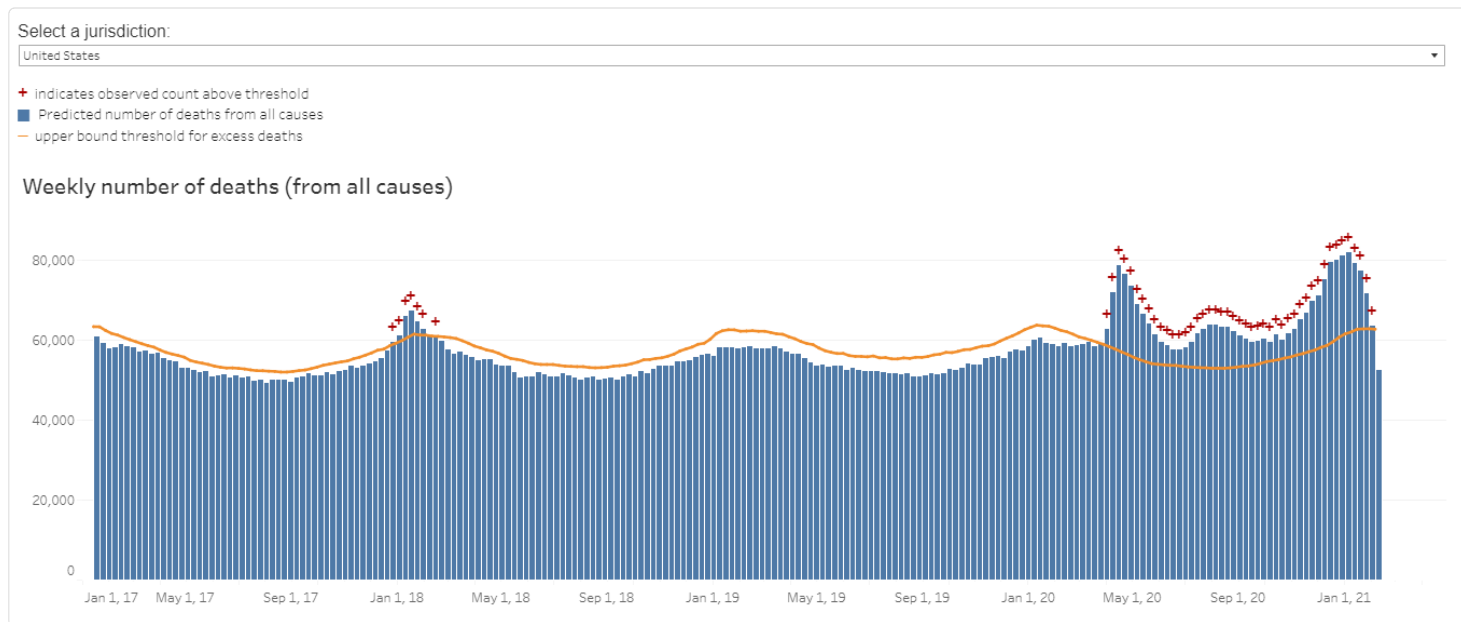
NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Conditions contributing to the death were identified using the International Classification of Diseases, Tenth Revision (ICD-10). Deaths involving more than one condition (e.g., 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. Some deaths involve more than one of the same condition category (e.g. deaths involving unintentional and intentional injury often include two or more injury ICD-10 codes), the number of mentions presented on the table above represents the number of instances where the condition was cited on the death certificate. Number of deaths and number of mentions 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 National Vital Statistics System (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 recent periods 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. United States death counts include the 50 states, plus the District of Columbia and New York City. New York state estimates exclude New York City.

[1] 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.



Additional data (leading causes of death, county, etc.)

Leading causes of death



Weekly final data for 2014–2019

Weekly counts of leading causes of death based on final underlying cause mortality data for years 2014–2019, by state.



Weekly provisional data for 2020–2021

Weekly counts of leading causes of death based on provisional underlying cause mortality data for 2020–2021, by state.



Monthly final data for 2014–2019

Monthly counts of leading causes of death, including injury-related causes, based on final underlying cause mortality data for years 2014–2019, for the U.S.



Monthly provisional data for 2020–2021

Monthly counts of leading causes of death, including injury-related causes, based on provisional underlying cause mortality data for 2020–2021, for the U.S.

County-level data



Provisional COVID-19 Death Counts in the United States by County

Deaths involving COVID-19 and total deaths per county. Counties included in this file had 10 or more COVID-19 deaths at the time of analysis.



Provisional COVID-19 Deaths by County and Race and Hispanic Origin

Deaths involving COVID-19 and total deaths per county, by race and Hispanic origin for counties with more than 100 COVID-19 deaths.

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.

Page last reviewed: March 17, 2021

Content source: [National Center for Health Statistics](#)