



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)

Contents

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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 24, 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:
3/24/2021

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	238	38,251	646	44	179	1,019
2020/2021	All Sexes	18-29 years	1,916	72,840	2,109	850	150	3,313
2020/2021	All Sexes	30-39 years	5,583	103,666	5,088	2,561	318	8,406
2020/2021	All Sexes	40-49 years	15,134	156,446	12,934	7,445	494	21,048
2020/2021	All Sexes	50-64 years	78,883	660,053	72,258	41,686	2,128	111,258
2020/2021	All Sexes	65-74 years	115,381	810,146	104,453	61,572	1,939	159,891
2020/2021	All Sexes	75-84 years	146,310	986,362	127,975	74,117	1,955	201,854
2020/2021	All Sexes	85 years and over	162,583	1,208,243	128,021	67,573	1,841	224,641
2020/2021	All Sexes	All Ages	526,028	4,036,007	453,484	255,848	9,004	731,430
2020/2021	Female	0-17 years	100	15,786	289	20	82	451
2020/2021	Female	18-29 years	731	19,638	842	354	73	1,289
2020/2021	Female	30-39 years	1,934	33,364	1,939	883	161	3,144
2020/2021	Female	40-49 years	5,180	56,844	4,948	2,573	220	7,755
2020/2021	Female	50-64 years	28,040	251,741	27,832	15,011	895	41,657
2020/2021	Female	65-74 years	44,601	338,222	41,119	23,349	853	63,119

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.

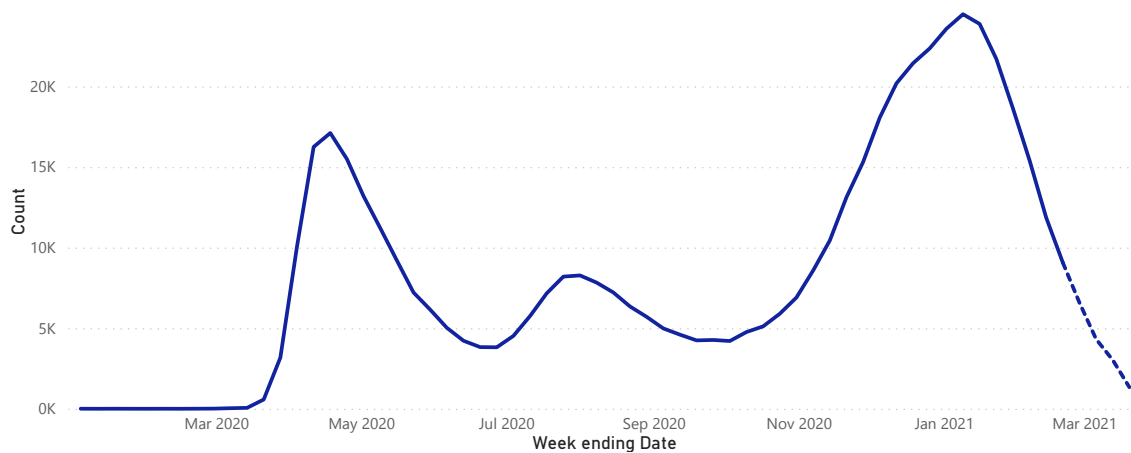
[4] Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

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 3/20/2021

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

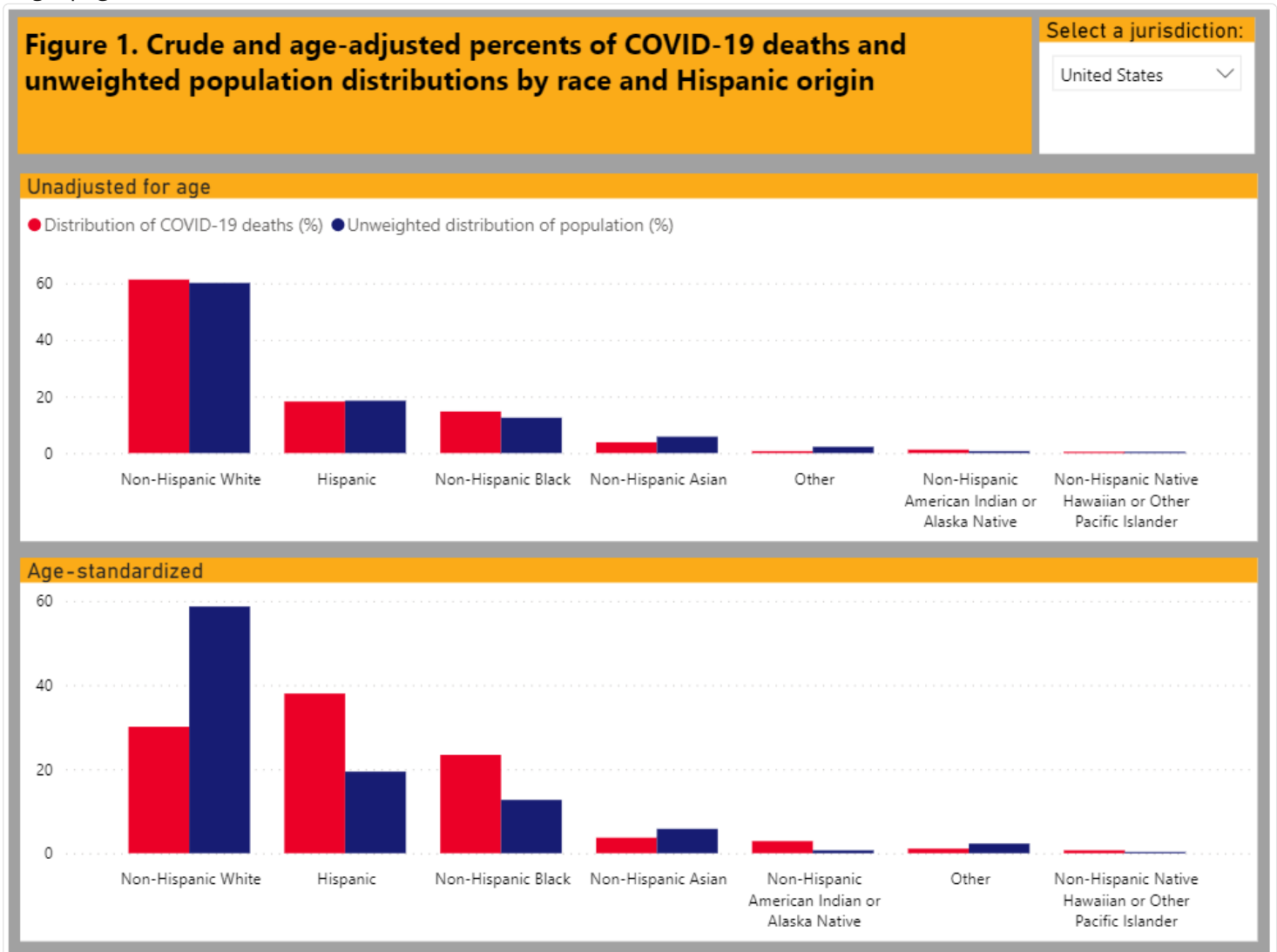


NOTE: Provisional death counts are based on death certificate data received and coded by NCHS as of the date of analysis and do not represent all deaths that occurred in that period. Data for the most recent 5 weeks (shown with dashed line) are typically less than 90% complete, with lower levels of completeness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

SOURCE: NCHS Medical 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:
3/24/2021

State		Place of Death						
United States		All						
Year in which death occurred	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]
2020/2021	United States	Decedent's home	35,308	1,339,387	30,070	9,211	1,716	57,028
2020/2021	United States	Healthcare setting, dead on arrival	455	11,222	289	119	17	642
2020/2021	United States	Healthcare setting, inpatient	342,266	1,257,085	336,534	206,932	5,686	477,254
2020/2021	United States	Healthcare setting, outpatient or emergency room	16,837	235,307	13,191	5,573	380	24,821
2020/2021	United States	Hospice facility	15,093	236,193	19,337	7,468	401	27,349
2020/2021	United States	Nursing home/long term care facility	105,097	682,448	46,644	23,498	652	128,861
2020/2021	United States	Other	10,795	271,170	7,318	2,996	149	15,246
2020/2021	United States	Place of death unknown	187	3,257	112	57	3	244
2020/2021	United States	Total - All Places of Death	526,038	4,036,069	453,495	255,854	9,004	731,445

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:
3/21/2021

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	237,620	339	1,538	4,146	12,419	31,996	56,777	67,538	62,862	
2020/2021	Chronic lower respiratory diseases	46,224	46	145	347	1,088	4,498	11,206	15,506	13,387	
2020/2021	Adult respiratory distress syndrome	54,788	148	542	1,475	4,390	10,161	15,668	13,672	8,730	
2020/2021	Respiratory failure	195,395	266	1,105	3,065	9,500	25,373	47,263	57,221	51,599	
2020/2021	Respiratory arrest	11,111	18	65	161	457	1,235	2,226	3,107	3,842	
2020/2021	Other diseases of the respiratory system	21,071	56	169	407	1,096	2,907	5,080	5,953	5,403	
2020/2021	Hypertensive diseases	103,698	32	291	1,215	4,080	11,918	22,925	29,329	33,907	
2020/2021	Ischemic heart disease	56,971	8	67	290	1,299	4,992	11,924	18,033	20,357	
2020/2021	Cardiac arrest	62,768	114	501	1,334	3,919	9,195	14,888	16,632	16,184	
2020/2021	Cardiac arrhythmia	38,474	23	77	207	755	2,717	7,052	11,981	15,662	
2020/2021	Heart failure	39,617	14	87	277	900	2,935	6,856	11,511	17,036	
2020/2021	Cerebrovascular diseases	25,696	24	72	237	873	2,721	5,555	7,572	8,641	
2020/2021	Other diseases of the circulatory system	32,490	100	273	624	1,650	4,082	7,266	8,918	9,577	
2020/2021	Sepsis	49,064	97	383	1,102	3,295	8,298	13,974	13,198	8,716	
2020/2021	Malignant neoplasms	24,302	56	90	268	864	3,091	6,384	7,565	5,984	
2020/2021	Diabetes	83,517	96	459	1,655	5,145	13,294	22,936	23,504	16,427	
2020/2021	Obesity	20,164	195	804	1,752	3,260	5,107	5,437	2,875	734	

Yearly Monthly Total

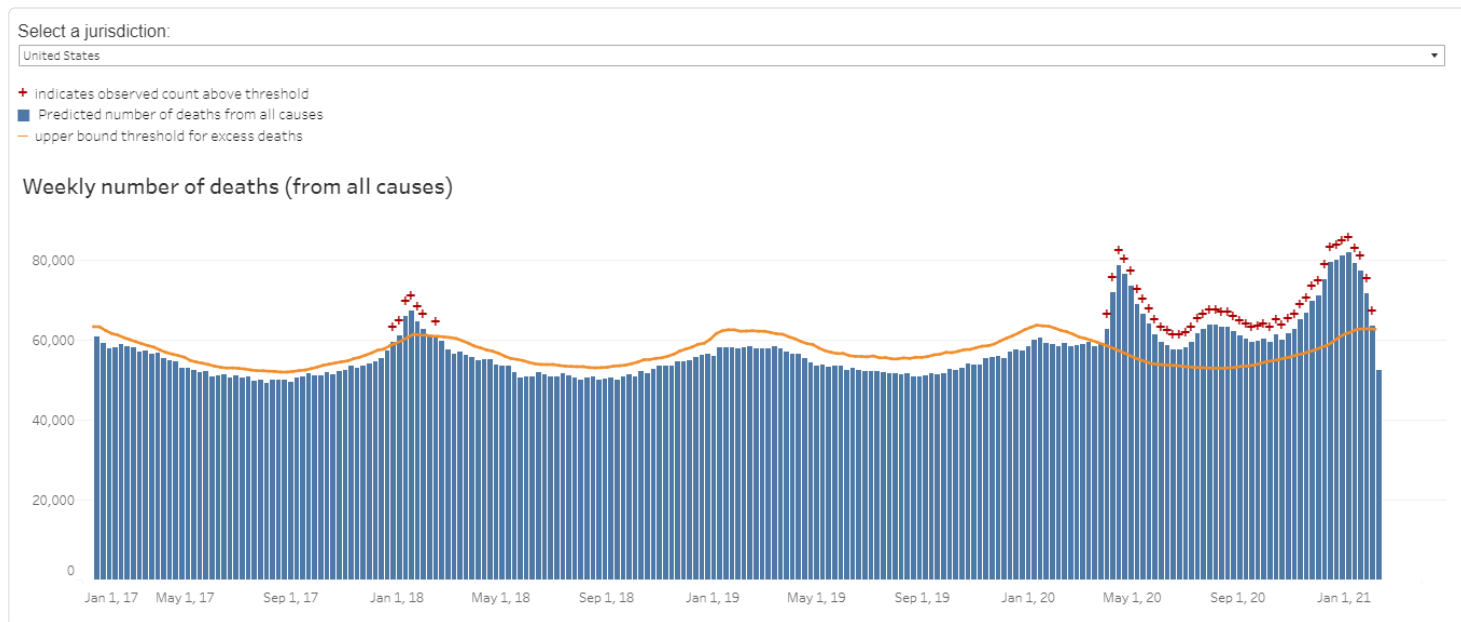
NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Conditions contributing to the death were identified using the International Classification of Diseases, Tenth Revision (ICD-10). Deaths involving more than one condition (e.g., 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 24, 2021

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