

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 September 8, 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](#).

The provisional counts for coronavirus disease 2019 (COVID-19) deaths are based on a current flow of mortality data in the National Vital Statistics System. National provisional counts include deaths occurring within the 50 states and the District of Columbia that have been received and coded as of the date specified. It is important to note that it can take several weeks for death records to be submitted to National Center for Health Statistics (NCHS), processed, coded, and tabulated. Therefore, the data shown on this page may be incomplete, and will likely not include all deaths that occurred during a given time period, especially for the more recent time periods. Death counts for earlier weeks are continually revised and may increase or decrease as new and updated death certificate data are received from the states by NCHS. COVID-19 death counts shown here may differ from other published sources, as data currently are lagged by an average of 1–2 weeks.

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:
9/8/2021

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	412	55,352	924	93	188	1,431
2020/2021	All Sexes	18-29 years	3,043	104,738	3,071	1,367	148	4,883
2020/2021	All Sexes	30-39 years	8,634	150,055	7,728	4,167	324	12,494
2020/2021	All Sexes	40-49 years	22,232	223,510	18,750	11,321	501	30,091
2020/2021	All Sexes	50-64 years	106,674	919,693	98,992	57,659	2,201	149,856
2020/2021	All Sexes	65-74 years	144,020	1,116,104	136,636	78,427	2,008	203,907
2020/2021	All Sexes	75-84 years	173,655	1,334,643	160,792	89,326	2,013	246,852
2020/2021	All Sexes	85 years and over	185,188	1,603,806	156,805	78,257	1,889	265,386
2020/2021	All Sexes	All Ages	643,858	5,507,901	583,698	320,617	9,272	914,900
2020/2021	Female	0-17 years	186	22,984	421	43	84	648
2020/2021	Female	18-29 years	1,157	28,059	1,186	539	70	1,871
2020/2021	Female	30-39 years	3,145	48,089	2,955	1,489	164	4,766
2020/2021	Female	40-49 years	7,874	81,078	7,194	3,999	221	11,270
2020/2021	Female	50-64 years	38,866	351,377	38,586	21,322	928	56,945
2020/2021	Female	65-74 years	56,756	467,551	54,516	30,447	878	81,591

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

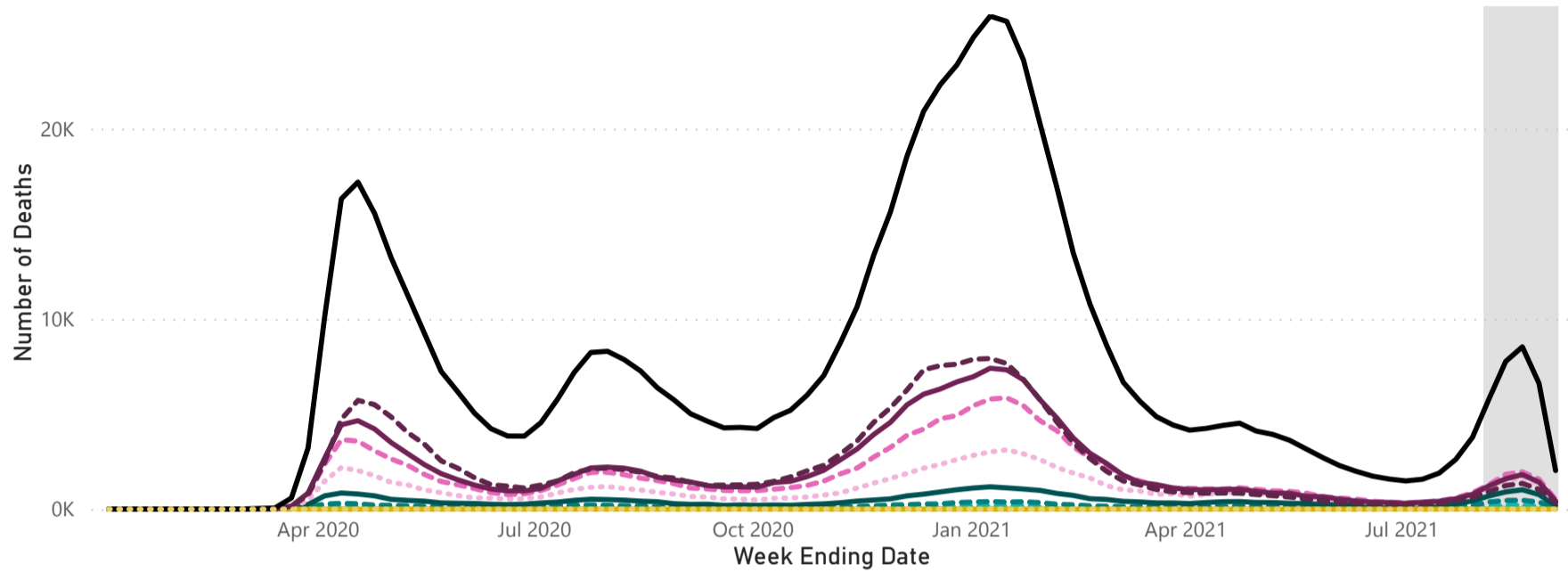
Reporting Period

Week ending 1/4/2020 through 9/4/2021

Data represented in the gray shaded area are incomplete. Deaths counts will be updated as additional data are received.

Provisional Death Counts, by Week Ending Date and Age Group

Age Group — 1-4 Years — 15-24 Ye... — 25-34 Ye... — 35-44 Ye... — 45-54 Ye... — 5-14 Years — 55-64 Ye... — 65-74 Ye...



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 in the gray shaded area) 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.

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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 page.

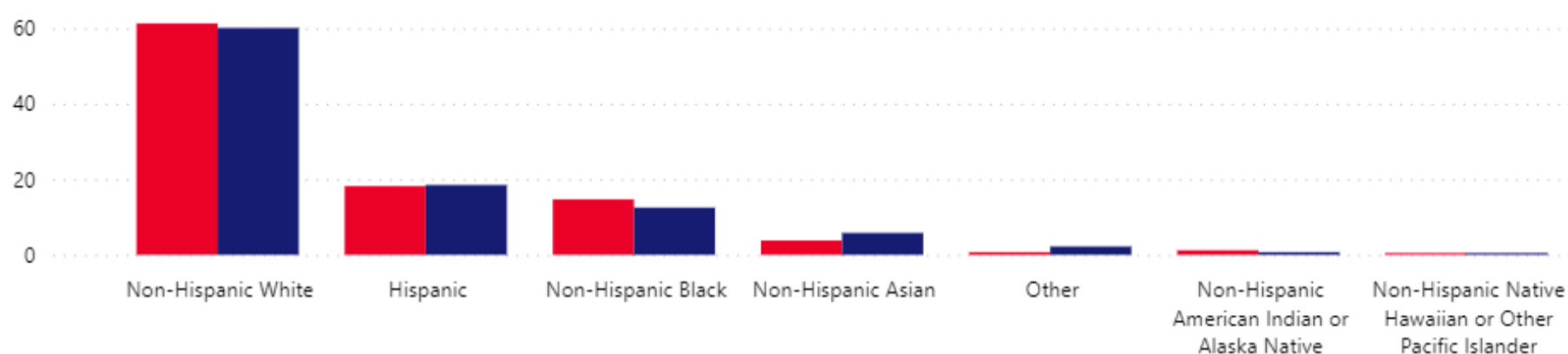
Figure 1. Crude and age-adjusted percents of COVID-19 deaths and unweighted population distributions by race and Hispanic origin

Select a jurisdiction:

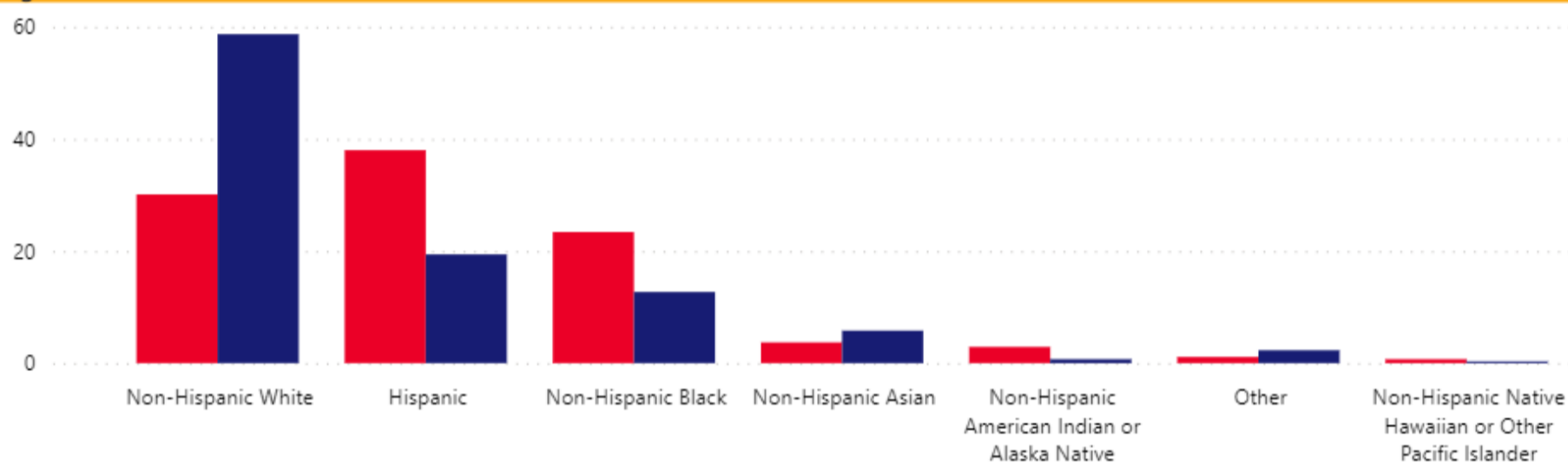
United States

Unadjusted for age

● Distribution of COVID-19 deaths (%) ● Unweighted distribution of population (%)



Age-standardized



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:
9/8/2021

State
 United States ▼

Place of Death
 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	48,248	1,855,037	40,168	12,607	1,745	76,694
2020/2021	United States	Healthcare setting, dead on arrival	601	15,446	368	156	19	832
2020/2021	United States	Healthcare setting, inpatient	425,870	1,707,050	436,208	261,773	5,880	605,828
2020/2021	United States	Healthcare setting, outpatient or emergency room	21,315	327,552	16,956	6,943	394	31,703
2020/2021	United States	Hospice facility	19,505	335,557	25,886	9,600	425	36,200
2020/2021	United States	Nursing home/long term care facility	115,358	890,583	54,834	25,739	664	145,079
2020/2021	United States	Other	12,864	375,941	9,213	3,757	144	18,443
2020/2021	United States	Place of death unknown	110	942	79	48	1	142
2020/2021	United States	Total - All Places of Death	643,871	5,508,108	583,712	320,623	9,272	914,921

Yearly

Monthly

Total

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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.

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[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 over 5% 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 4.0 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:
9/5/2021

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	299,804	555	2,514	6,595	18,327	43,776	72,929	81,970	73,132	
2020/2021	Chronic lower respiratory diseases	56,371	73	215	501	1,535	5,986	13,970	18,683	15,407	
2020/2021	Adult respiratory distress syndrome	67,512	213	847	2,239	6,207	13,376	19,292	15,893	9,443	
2020/2021	Respiratory failure	243,670	405	1,705	4,804	13,809	34,553	60,203	68,972	59,215	
2020/2021	Respiratory arrest	13,461	27	103	247	673	1,617	2,792	3,657	4,345	
2020/2021	Other diseases of the respiratory system	28,038	101	282	676	1,747	4,232	6,839	7,634	6,527	
2020/2021	Hypertensive diseases	123,804	50	418	1,739	5,585	15,344	27,738	34,356	38,571	
2020/2021	Ischemic heart disease	69,086	17	108	429	1,874	6,668	14,922	21,646	23,420	
2020/2021	Cardiac arrest	77,629	174	762	1,997	5,464	12,166	18,614	19,794	18,657	
2020/2021	Cardiac arrhythmia	47,331	33	109	310	1,123	3,731	8,889	14,647	18,489	
2020/2021	Heart failure	48,684	30	139	403	1,268	3,888	8,764	14,123	20,068	
2020/2021	Cerebrovascular diseases	31,519	36	117	378	1,217	3,538	6,949	9,119	10,164	
2020/2021	Other diseases of the circulatory system	42,211	163	437	999	2,521	5,798	9,615	11,141	11,536	
2020/2021	Sepsis	62,003	153	547	1,639	4,666	11,167	17,695	15,986	10,149	
2020/2021	Malignant neoplasms	30,930	77	128	363	1,200	4,146	8,361	9,485	7,170	
2020/2021	Diabetes	100,939	137	631	2,254	6,884	16,945	27,841	27,568	18,677	

Yearly

Monthly

Total

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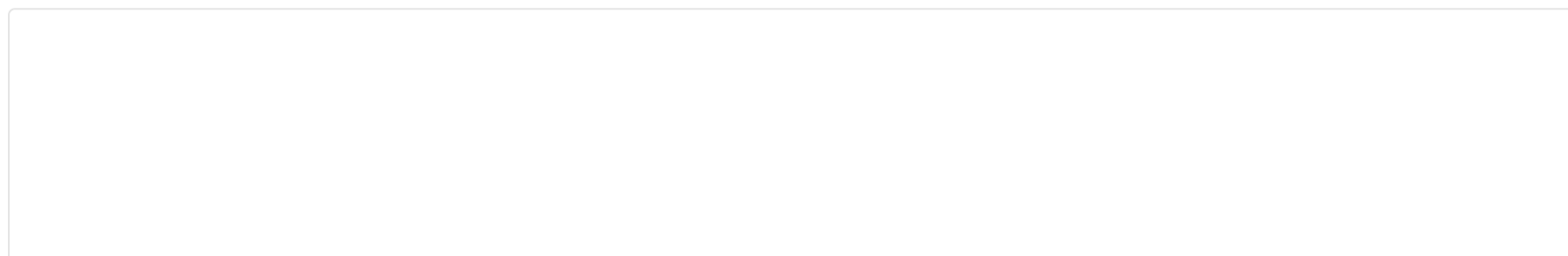
NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Conditions contributing to the death were identified using the International Classification of Diseases, Tenth Revision (ICD-10). Deaths involving more than one condition (e.g.,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

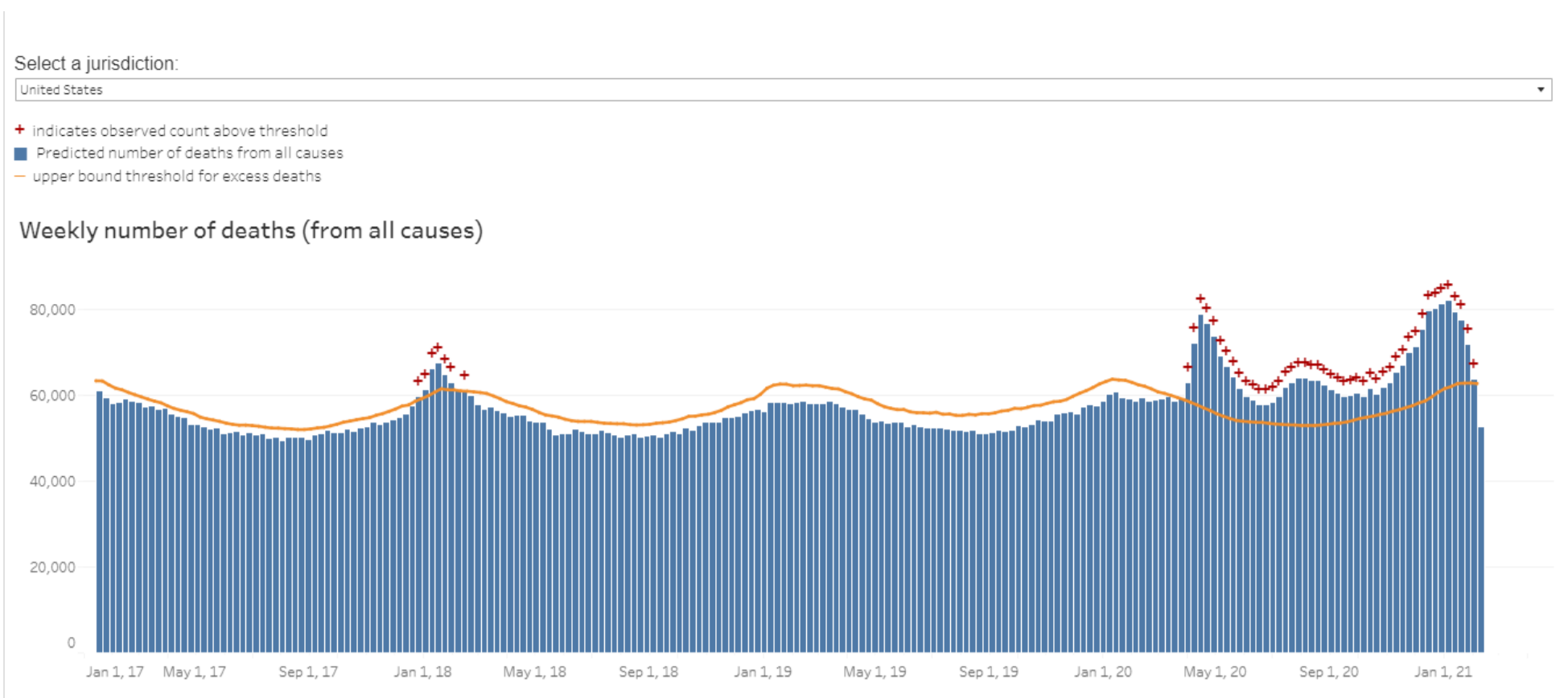
[1] Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1.

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.

Urban/Rural Status



Provisional COVID-19 Deaths by Urbanicity and Week

Deaths involving COVID-19 and total deaths, by week and urbanicity. Urbanicity is defined as metropolitan and non-metropolitan, using the NCHS Urban-Rural classification scheme.

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.