



National Center for Health Statistics



National Vital Statistics System

Provisional Death Counts for Coronavirus Disease (COVID-19)

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

- **This page has daily updates of national provisional counts for deaths involving COVID-19 in the United States by week, by age, by sex, by place of death and by jurisdiction of residence.**
- **For weekly state-specific updates by demographic and geographic characteristics, including race and Hispanic origin, visit our [Weekly Updates](#) page.**

The provisional counts for coronavirus disease (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.

The provisional data presented on this page include the weekly provisional count of deaths in the United States due to COVID-19, deaths from all causes and percent of expected deaths (i.e., number of deaths received over number of deaths expected based on data from previous years), pneumonia deaths (excluding pneumonia deaths involving influenza), pneumonia deaths involving COVID-19, influenza deaths, and deaths involving pneumonia, influenza, or COVID-19; (a) by week ending date, (b) by age at death, (c) by sex, (d) by place of death, and (e) by specific jurisdictions. Future updates to this release may include additional detail such as demographic characteristics, additional causes of death (e.g., acute respiratory distress syndrome or other comorbidities), or estimates based on models that account for reporting delays to generate more accurate predicted provisional counts.

Pneumonia and influenza deaths are included to provide context for understanding the completeness of COVID-19 mortality data and related trends. Deaths due to COVID-19 may be misclassified as pneumonia or influenza deaths in the absence of positive test results, and these conditions may appear on death certificates as a comorbid condition. Thus, increases in pneumonia or influenza deaths may be an indicator of excess COVID-19-related mortality. Additionally, estimates of completeness for influenza or pneumonia deaths may provide context for understanding the lag in

reporting for COVID-19 deaths, as it is anticipated that these causes would have similar delays in reporting, processing, and coding. However, it is possible that reporting of COVID-19 mortality may be slower or faster than for other causes of death, and that the delay may change over time. Analyses to better understand and quantify reporting delays for COVID-19 deaths and related causes are underway. The list of causes provided in these tables may expand in future releases as more data are received, and other potentially comorbid conditions are determined.

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Table 1. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by week ending date, United States. Week ending 2/1/2020 to 4/18/2020.*

Data as of April 23, 2020

Week ending date in which the death occurred	COVID-19 Deaths (U07.1) ¹	Deaths from All Causes	Percent of Expected Deaths ²	Pneumonia Deaths (J12.0–J18.9) ³	Deaths with Pneumonia and COVID-19 (J12.0–J18.9 and U07.1) ³	Influenza Deaths (J09–J11) ⁴	Population ⁵
Total Deaths	23,358	644,934	94	53,768	10,492	5,530	
2/1/2020	0	56,675	96	3,651	0	455	
2/8/2020	0	57,260	96	3,646	0	489	
2/15/2020	0	56,462	96	3,662	0	511	
2/22/2020	0	56,187	97	3,523	0	527	
2/29/2020	5	55,769	97	3,547	3	599	
3/7/2020	21	55,330	96	3,667	12	575	
3/14/2020	47	53,380	94	3,627	24	567	
3/21/2020	474	53,238	94	4,080	218	485	
3/28/2020	2,551	55,921	100	5,450	1,179	387	
4/4/2020	7,215	60,324	108	8,055	3,504	410	
4/11/2020	9,463	55,905	101	7,734	4,118	390	
4/18/2020	3,582	28,483	53	3,126	1,434	135	

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. The United States population, based on 2018 postcensal estimates from the U.S. Census Bureau, is 327,167,434 (9).

*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, age, and cause of death.

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

²Percent of expected deaths is the number of deaths for all causes for this week in 2020 compared to the average number across the same week in 2017–2019. Previous analyses of 2015–2016 provisional data completeness have found that completeness is lower in the first few weeks following the date of death (<25%), and then increases over time such that data are generally at least 75% complete within 8 weeks of when the death occurred (8).

³Pneumonia death counts exclude pneumonia deaths involving influenza.

⁴Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.

⁵Deaths with confirmed or presumed COVID-19, Pneumonia, or Influenza, coded to ICD-10 codes U07.1 or J09–J18.9.

Table 2. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by age group, United States. Week ending 2/1/2020 to 4/18/2020.*

Data as of April 23, 2020

Age group	COVID-19 Deaths (U07.1) ¹	Deaths from All Causes	Pneumonia Deaths (J12.0–J18.9) ²	Deaths with Pneumonia and COVID-19 (J12.0–J18.9 and U07.1) ²	Influenza Deaths (J09–J11) ³	Population ⁴
All ages	23,358	644,934	53,768	10,492	5,530	327,167,434
Under 1 year	0	3,364	30	0	11	3,848,208
1–4 years	2	664	32	2	28	15,962,067
5–14 years	1	964	34	0	39	41,075,169
15–24 years	21	5,717	117	10	38	42,970,800
25–34 years	183	12,135	386	80	124	45,697,774
35–44 years	462	17,498	840	177	195	41,277,888
45–54 years	1,257	33,838	2,202	503	483	41,631,699
55–64 years	2,993	81,553	6,463	1,288	1,018	42,272,636
65–74 years	5,093	127,033	11,151	2,226	1,216	30,492,316
75–84 years	6,429	159,584	14,872	2,973	1,225	15,394,374
85 years and over	6,917	202,584	17,641	3,233	1,153	6,544,503

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.

*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, age, and cause of death.

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

²Pneumonia death counts exclude pneumonia deaths involving influenza.

³Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.

⁴Population is based on 2018 postcensal estimates from the U.S. Census Bureau (9)

Table 3. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by sex, United States. Week ending 2/1/2020 to 4/18/2020.*

Data as of April 23, 2020

Sex	COVID-19 Deaths (U07.1) ¹	Deaths from All Causes	Pneumonia Deaths (J12.0-J18.9) ²	Deaths with Pneumonia and COVID-19 (J12.0-J18.9 and U07.1) ²	Influenza Deaths (J09-J11) ³
Total deaths	23,358	644,934	53,768	10,492	5,530
Male	13,508	332,645	28,708	6,074	2,828
Female	9,849	312,267	25,059	4,417	2,702
Unknown	1	22	1	1	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.

*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, age, and cause of death.

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

²Pneumonia death counts exclude pneumonia deaths involving influenza.

³Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.

Table 4. 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 4/18/2020.*

Data as of April 23, 2020

Place of death	COVID-19 Deaths (U07.1) ¹	Deaths from All Causes	Pneumonia Deaths (J12.0-J18.9) ²	Deaths with Pneumonia and COVID-19 (J12.0-J18.9 and U07.1) ²	Influenza Deaths (J09-J11) ³
Total	23,358	644,934	53,768	10,492	5,530
Healthcare setting, inpatient	16,198	185,101	36,668	8,321	3,508
Healthcare setting, outpatient or emergency room	1,241	38,444	2,079	467	175
Healthcare setting, dead on arrival	28	1,700	43	9	10
Decedent's home	1,790	208,071	4,117	232	1,058
Hospice facility	264	46,480	2,794	131	282
Nursing home/long term care facility	3,609	124,546	7,188	1,263	424
Other	225	40,486	867	67	73
Place of death unknown	3	106	12	2	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.

*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, age, and cause of death.

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

²Pneumonia death counts exclude pneumonia deaths involving influenza.

³Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.

Table 5. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by jurisdiction of occurrence, United States. Week ending 2/1/2020 to 4/18/2020.*

Data as of April 23, 2020

Jurisdiction of Occurrence	COVID-19 Deaths (U07.1) ¹	Deaths from All Causes	Percent of Expected Deaths ²	Pneumonia Deaths (J12.0–J18.9) ³	Deaths with Pneumonia and COVID-19 (J12.0–J18.9 and U07.1) ³	Influenza Deaths (J09–J11) ⁴
United States ⁵	23,358	644,934	94	53,768	10,492	5,530
Alabama	98	11,338	90	694	28	83
Alaska	-	786	78	37	-	-
Arizona	156	14,756	101	1,034	85	103
Arkansas	19	7,245	94	485	-	66
California	726	63,588	97	5,314	401	537
Colorado	348	9,754	102	809	219	90
Connecticut	-	-	0	0	0	0
Delaware	28	1,713	77	93	14	11
District of Columbia	34	1,300	90	134	34	-
Florida	614	50,101	99	3,566	337	274
Georgia	296	17,810	88	1,126	143	90
Hawaii	-	2,601	94	180	-	18
Idaho	35	3,334	97	184	11	24
Illinois	487	25,803	101	2,097	282	165
Indiana	153	14,574	91	1,203	88	117
Iowa	48	6,870	94	492	12	78
Kansas	33	5,964	92	405	16	85
Kentucky	70	9,832	84	875	45	83
Louisiana	532	9,930	91	661	217	60
Maine	21	3,515	99	302	10	30
Maryland	389	12,251	101	1,066	176	104

Massachusetts	935	15,270	105	1,595	375	148
Michigan	1,150	24,103	103	2,113	543	213
Minnesota	100	10,468	99	760	41	111
Mississippi	117	7,354	97	639	57	51
Missouri	109	13,788	88	863	48	165
Montana	-	2,248	90	132	-	32
Nebraska	21	3,696	90	285	-	27
Nevada	92	5,877	95	467	73	35
New Hampshire	36	2,942	99	200	12	29
New Jersey	3,018	22,310	123	3,031	1,549	102
New Mexico	19	3,801	85	260	13	25
New York ⁶	3,434	28,485	117	4,176	1,834	185
New York City	8,072	25,836	198	4,722	2,911	726
North Carolina	0	8,762	38	533	0	99
North Dakota	-	1,462	86	128	0	18
Ohio	104	24,001	80	1,328	41	216
Oklahoma	74	8,049	83	712	29	88
Oregon	49	7,619	87	406	23	54
Pennsylvania	690	25,641	77	1,794	297	173
Rhode Island	18	2,014	80	104	-	22
South Carolina	104	11,733	100	705	43	90
South Dakota	-	1,780	90	140	-	21
Tennessee	100	16,806	94	1,260	48	117
Texas	256	44,867	92	3,274	92	306
Utah	14	4,192	93	250	-	38
Vermont	28	1,416	101	94	-	15
Virginia	90	15,712	95	799	30	95
Washington	463	13,384	97	1,109	250	96
West Virginia	-	4,548	83	325	0	56
Wisconsin	146	12,656	100	725	26	142
Wyoming	-	1,046	97	82	0	-
Puerto Rico	51	4,645	67	649	26	28

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. Data cells with counts greater than zero and less than 10 have been suppressed in accordance with NCHS confidentiality standards.

*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, age, and cause of death.

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

²Percent of expected deaths is the number of deaths for all causes for this week in 2020 compared to the average number across the same week in 2017–2019.

³Pneumonia death counts exclude pneumonia deaths involving influenza.

⁴Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.

⁵United States death count includes the 50 states, plus the District of Columbia and New York City.

⁶Excludes New York City.

Technical Notes

Comparing data in this report to other sources

Provisional death counts in this report will not match counts in other sources, such as media reports or numbers from county health departments. Death data, once received and processed by National Center for Health Statistics (NCHS), are tabulated by the state or jurisdiction in which the death occurred. Death counts are not tabulated by the decedent's state of residence. COVID-19 deaths may also be classified or defined differently in various reporting and surveillance systems. Death counts in this report include laboratory confirmed COVID-19 deaths and clinically confirmed COVID-19 deaths. This includes deaths where COVID-19 is listed as a “presumed” or “probable” cause. Some local and state health departments only report laboratory-confirmed COVID-19 deaths. This may partly account for differences between NCHS reported death counts and death counts reported in other sources. Provisional counts reported here track approximately 1–2 weeks behind other published data sources on the number of COVID-19 deaths in the U.S. (1,2,3).

Nature and sources of data

Provisional death counts are based on death records received and processed by NCHS as of a specified cutoff date. National provisional counts include deaths occurring within the 50 states and the District of Columbia. NCHS receives the death records from state vital registration offices through the Vital Statistics Cooperative Program. Provisional data are based on available records that meet certain data quality criteria at the time of analysis and may not include all deaths that occurred during a given time period especially for more recent periods. Estimates of completeness are provided. Therefore, they should not be considered comparable with final data and are subject to change.

Cause-of-death classification and definition of deaths

Mortality statistics are compiled in accordance with World Health Organization (WHO) regulations specifying that WHO member nations classify and code causes of death with the current revision of the International Statistical Classification of Diseases and Related Health Problems (ICD). ICD provides the basic guidance used in virtually all countries to code and classify causes of death. It provides not only disease, injury, and poisoning categories but also the rules used to select the single underlying cause of death for tabulation from the several diagnoses that may be reported on a single death certificate, as well as definitions, tabulation lists, the format of the death certificate, and regulations on use of the classification. Causes of death for data presented in this report were coded according to ICD guidelines described in annual issues of Part 2a of the NCHS Instruction Manual (4).

Coronavirus disease deaths are identified using the ICD-10 code U07.1. Deaths are coded to U07.1 when coronavirus disease 2019 or COVID-19 are reported as a cause that contributed to death on the death certificate. These can include laboratory confirmed cases, as well as cases without laboratory confirmation. If the certifier suspects COVID-19 or determines it was likely (e.g., the circumstances were compelling within a reasonable degree of certainty), they can report COVID-19 as “probable” or “presumed” on the death certificate (5, 6).

Pneumonia deaths are identified using underlying cause-of-death codes from the 10th Revision of ICD (ICD-10): J12–J18, excluding deaths that involve influenza (J09–J11). Influenza deaths are identified from the ICD-10 codes J09–J11, and include deaths with pneumonia or COVID-19 listed as a contributing cause of death.

Estimated completeness of data

Provisional data are incomplete, and the level of completeness varies by jurisdiction, week, decedent's age, and cause of death. Until data for a calendar year are finalized, typically in December of the following year, completeness of provisional data cannot be determined. However, completeness can be estimated in a variety of ways. Surveillance systems that rely on weekly monitoring of provisional mortality data, such as CDC's FluView Interactive mortality surveillance (7), estimate completeness by comparing the count of deaths in a given week of the current year to the average count of deaths in that same week of the previous 3 years. These estimates can be generated for specific causes of death, jurisdictions, and age groups, and updated on a weekly or daily basis. For the purposes of COVID-19 surveillance, completeness is approximated by comparing the provisional number of deaths received to the number of expected deaths based on prior years data. Percent of expected deaths provided in this data release are based on the total count of deaths in the most recent weeks of the current year, compared with an average across the same weeks of the three previous years (i.e., 2017–2019). These estimates of completeness are calculated by week, jurisdiction of occurrence, and age group.

It is important to note that the true levels of completeness are unknown, and the estimates provided here are only a proxy. In cases where mortality rates are increasing rapidly, particularly when excess deaths due to a novel cause are occurring, values for completeness for recent weeks may exceed 100% even when NCHS has yet to receive all available data. Conversely, if the number of deaths was elevated in prior years due to a severe flu season, for example, estimated completeness in the most recent weeks may be lower than the true value. To avoid relying too heavily on comparisons to a single week of a single prior year, estimates of completeness included in this release are based on the average counts in a given week across 3 prior years (e.g., the 12th week of 2017, 2018, and 2019).

Percent of expected deaths provided in this release are shown to provide context for interpreting provisional counts of COVID-19 deaths and deaths due to related causes. Where estimated values are high (e.g., greater than 100%), this suggests that mortality is higher in 2020 relative to the same weeks of prior years. Where estimated values of completeness are low, this could indicate that data are incomplete due to delayed reporting, or that mortality is lower in 2020 compared with prior years, or some combination of these factors.

Delays in reporting

Provisional counts of deaths are underestimated relative to final counts. This is due to the many steps involved in reporting death certificate data. When a death occurs, a certifier (e.g. physician, medical examiner or coroner) will complete the death certificate with the underlying cause of death and any contributing causes of death. In some cases, laboratory tests or autopsy results may be required to determine the cause of death. Completed death certificate are sent to the state vital records office and then to NCHS for cause of death coding. At NCHS, about 80% of deaths are automatically processed and coded within seconds, but 20% of deaths need to manually coded, or coded by a person. Deaths involving certain conditions such as influenza and pneumonia are more likely to require manual coding than other causes of death. Furthermore, all deaths with COVID-19 are manually coded. Death certificates are typically manually coded within 7 days of receipt, although the coding delay can grow if there is a large increase in the number of deaths. As a result, underestimation of the number of deaths may be greater for certain causes of death than others.

Previous analyses of provisional data completeness from 2015 suggested that mortality data is approximately 27% complete within 2 weeks, 54% complete within 4 weeks, and at least 75% complete within 8 weeks of when the death occurred (8). Pneumonia deaths are 26% complete within 2 weeks, 52% complete within 4 weeks, and 72% complete

within 8 weeks (unpublished). Data timeliness has improved in recent years, and current timeliness is likely higher than published rates.

Place of Death

Place of death noted on the death certificate is determined by where the death was pronounced and on the physical location where the death occurred (10). Healthcare setting includes hospitals, clinics, medical facilities, or other licensed institutions providing diagnostic and therapeutic services by medical staff. Decedent's home includes independent living units such as private homes, apartments, bungalows, and cottages. Hospice facility refers to a licensed institution providing hospice care (e.g., palliative and supportive care for the dying), but not to hospice care that might be provided in other settings, such as a patient's home. Nursing home/long-term care facility refers to a facility that is not a hospital but provides patient care beyond custodial care, such as a nursing home, skilled nursing facility, a long-term care facility, convalescent care facility, intermediate care facility, or residential care facility. Other includes such locations as a licensed ambulatory/surgical center, birthing center, physician's office, prison ward, public building, worksite, outdoor area, orphanage, or facilities offering housing and custodial care but not patient care (e.g., board and care home, group home, custodial care facility, foster home).

Comparing deaths from different states

Death counts should not be compared across states. Data timeliness varies by state. Some states report deaths on a daily basis, while other states report deaths weekly or monthly. Furthermore, health departments and state vital record offices may be affected by COVID-19 related response activities, which could further delay death certificate reporting. Currently, 63% of U.S. deaths are reported within 10 days of the date of death, but there is variation within states. Twenty states report over 75% of deaths within the first 10 days, while three states report fewer than 1% of deaths within 10 days.



Why are pneumonia and influenza deaths included in this report?




Pneumonia and influenza deaths are included to provide context for understanding the completeness of COVID-19 mortality data and related trends. Deaths due to COVID-19 may be misclassified as pneumonia or influenza deaths in the absence of positive test results, and pneumonia or influenza may appear on death certificates as a comorbid condition. Additionally, COVID-19 symptoms can be similar to influenza-like illness, thus deaths may be misclassified as influenza. Thus, increases in pneumonia and influenza deaths may be an indicator of excess COVID-19-related mortality. Additionally, estimates of completeness for pneumonia and influenza deaths may provide context for understanding the lag in reporting for COVID-19 deaths, as it is anticipated that these causes would have similar delays in reporting, processing, and coding.

Source

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

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Page last reviewed: April 23, 2020

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