

National Center for Health Statistics



National Vital Statistics System

Provisional Death Counts for Coronavirus Disease (COVID-19)



Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of April 27, 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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CSV Format

• Data.CDC.gov (Export to CSV, JSON, XLS, XML)[?]

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 4/25/2020.*

Data as of April 27, 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	Deaths with Pneumonia, Influenza, or COVID- 19 (U07.1 or J09–J18.9)⁵
Total Deaths	24,555	654,798	96	54,962	11,070	5,571	73,358
2/1/2020	0	57,146	96	3,680	0	465	4,145
2/8/2020	0	57,284	96	3,646	0	491	4,137
2/15/2020	0	56,499	96	3,668	0	511	4,179
2/22/2020	0	56,259	97	3,528	0	529	4,057
2/29/2020	5	55,972	97	3,563	3	604	4,169
3/7/2020	21	55,516	96	3,677	12	579	4,264
3/14/2020	49	53,529	94	3,642	25	569	4,234
3/21/2020	478	53,437	94	4,096	221	489	4,835
3/28/2020	2,569	56,273	100	5,482	1,187	391	7,211
4/4/2020	7,383	61,261	109	8,221	3,591	412	12,224
4/11/2020	9,958	58,378	103	8,160	4,373	394	13,838
4/18/2020	4,092	33,244	62	3,599	1,658	137	6,065

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).

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 4/25/2020.*

Data as of April 27, 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	Population⁴ ♦
All ages	24,555	654,798	54,962	11,070	5,571	327,167,434
Under 1 year	0	3,430	31	0	11	3,848,208
1–4 years	2	670	32	2	28	15,962,067
5–14 years	1	979	34	0	39	41,075,169
15–24 years	22	5,814	120	11	39	42,970,800
25–34 years	194	12,355	392	80	125	45,697,774
35–44 years	479	17,775	865	186	197	41,277,888
45–54 years	1,316	34,436	2,265	539	486	41,631,699
55–64 years	3,124	82,866	6,606	1,358	1,026	42,272,636
65–74 years	5,376	129,025	11,432	2,368	1,223	30,492,316
75–84 years	6,773	162,006	15,190	3,145	1,234	15,394,374
85 years and over	7,268	205,442	17,995	3,381	1,163	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.

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.

^{*}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.

 $^{^{3}}$ Influenza 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 4/25/2020.*

Data as of April 27, 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	27,674	673,580	57,480	12,398	5,668
Male	15,923	347,539	30,733	7,157	2,903
Female	11,750	326,018	26,746	5,240	2,765
Unknown	1	23	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.

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 4/25/2020.*

Data as of April 27, 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	27,674	673,580	57,480	12,398	5,668
Healthcare setting, inpatient	19,178	193,765	39,369	9,903	3,544
Healthcare setting, outpatient or emergency room	1,431	40,122	2,235	537	182
Healthcare setting, dead on arrival	33	1,767	44	10	11
Decedent's home	2,073	217,574	4,367	275	1,132
Hospice facility	334	47,811	2,916	162	285
Nursing home/long term care facility	4,341	130,207	7,624	1,429	436
Other	279	42,210	911	80	78
Place of death unknown	5	124	14	2	0

^{*}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.

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

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.

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 4/25/2020.*

Data as of April 27, 2020

Jurisdiction of Occurrence	COVID-19 Deaths 🗣 (U07.1) ¹	Deaths from All 🔷 Causes	Percent of Expected \(\right\) 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 States⁵	27,674	673,580	91	57,480	12,398	5,668
Alabama	127	11,783	87	735	38	82
Alaska	-	789	73	37	-	-
Arizona	193	14,940	95	1,063	101	104
Arkansas	19	7,514	91	500	-	67
California	820	65,913	93	5,519	456	543
Colorado	392	10,114	98	849	243	90
Connecticut	-	461	6	29	0	-
Delaware	28	1,958	81	109	14	14
District of Columbia	48	1,369	87	153	48	-
Florida	677	51,716	94	3,700	371	277
Georgia	382	18,624	85	1,208	184	91
Hawaii	-	2,662	89	182	-	18
Idaho	41	3,448	93	190	12	24
Illinois	974	27,879	101	2,483	555	169
Indiana	239	15,398	89	1,307	133	118
lowa	68	7,125	90	504	16	80
Kansas	78	6,308	91	434	34	85
Kentucky	87	10,234	81	913	55	84
Louisiana	538	10,304	88	680	220	60
Maine	31	3,668	96	308	10	30
Maryland	478	12,854	98	1,131	211	105

^{*}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.

Massachusetts	1,023	15,900	101	1,681	407	148
Michigan	1,462	25,336	100	2,322	695	216
Minnesota	114	10,799	95	786	44	111
Mississippi	154	7,706	95	694	78	51
Missouri	136	14,378	85	903	55	167
Montana	-	2,248	84	132	-	32
Nebraska	21	3,696	84	285	-	27
Nevada	105	6,121	91	493	84	35
New Hampshire	47	3,068	95	212	16	29
New Jersey	3,037	23,224	119	3,125	1,569	104
New Mexico	28	4,028	83	284	20	25
New York ⁶	4,283	30,423	116	4,709	2,228	187
New York City	9,401	28,139	201	5,350	3,410	792
North Carolina	0	9,131	37	557	0	107
North Dakota	-	1,508	83	135	-	18
Ohio	168	24,258	75	1,382	73	217
Oklahoma	89	8,389	80	740	37	90
Oregon	58	7,900	83	420	25	56
Pennsylvania	688	25,746	72	1,800	296	173
Rhode Island	46	2,124	78	113	10	23
South Carolina	121	12,313	97	738	48	91
South Dakota	-	1,816	86	143	-	21
Tennessee	114	17,396	90	1,317	56	119
Texas	347	47,230	90	3,497	135	310
Utah	18	4,551	93	267	-	38
Vermont	36	1,521	100	105	-	14
Virginia	211	16,835	94	912	67	101
Washington	527	13,708	92	1,159	281	98
West Virginia	-	4,796	81	348	0	56
Wisconsin	182	13,146	96	754	29	144
Wyoming	-	1,085	94	83	0	-
Puerto Rico	51	4,876	65	685	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 of 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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