NO PATONICAL PROPERTY OF THE PATONICAL PROPE

April 2021, NCJ 255970

Mortality in State and Federal Prisons, 2001-2018 – Statistical Tables

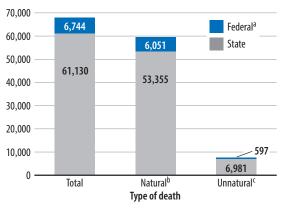
E. Ann Carson, Ph.D., BJS Statistician

In 2018, a total of 4,135 state prisoners died in publicly or privately operated prisons, and an additional 378 federal prisoners died in facilities operated by the Federal Bureau of Prisons (BOP). In state prisons, the number of deaths rose 5% from 2017 (3,943) to 2018 (4,135), the highest level since the Bureau of Justice Statistics (BJS) began collecting information on mortality in state prisons in 2001 (figure 1). Between 2001 and 2018, the total number of state prisoners in custody increased 1%, while the number of deaths in state prisons rose 44%. Deaths of federal prisoners decreased almost 1% from 2017 to 2018 (from 381 to 378).

¹BJS began receiving federal prison mortality data from privately operated facilities that were under a BOP contract in 2015. To preserve the time series back to 2001, the federal mortality data in this report does not include deaths in privately operated federal facilities. Nine federal prisoners died in private facilities in 2015, seven in 2016 and 2017, and five in 2018.

FIGURE 1 Number of state and federal prisoner deaths, 2001–2018

Number of deaths



^aExcludes deaths in private federal facilities.

^bIncludes deaths due to illnesses, such as heart disease, cancer, liver disease, and AIDS-related deaths.

^CIncludes deaths due to external factors and causes, such as suicide, homicide, and accidental deaths.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2018; and Federal Bureau of Prisons, 2001–2018.

Highlights

- In 2018, the number of deaths (4,135 prisoners) and the mortality rate (344 deaths per 100,000 prisoners) in state prisons were the highest since the Bureau of Justice Statistics (BJS) began collecting mortality data from state prisons in 2001.
- The number of state prisoners who committed suicide increased 20% from 2017 (259) to 2018 (311), marking the highest number of suicides that BJS has recorded in 18 years of collecting mortality data.
- State prisoners had a lower overall mortality rate (319 per 100,000) than did adult U.S. residents (419 per 100,000) in 2018 when the data were adjusted for differences in age, sex, and race or ethnicity between the two populations.

- State prisoners in 2018 were slightly more likely to die of cancer, liver disease, and suicide and more than twice as likely to die from homicide than the adjusted population of adult U.S. residents.
- Ten in 100,000 state prisoners died from homicide in 2018, the highest homicide rate in state prisons since 2001.
- White prisoners accounted for more than half of all deaths in state prisons in 2018 (53%), while they made up less than one-third (32%) of the state prison population.
- In 2018, the rate at which federal prisoners died of illness (190 deaths per 100,000 federal prisoners) was the lowest since 2012 (182 per 100,000).



Mortality rate

The mortality rate for state prisoners was 344 per 100,000 state prisoners in 2018, up from 323 per 100,000 in 2017 (**figure 2**). This was the highest rate recorded since 2001. While the absolute number of federal prisoners who died in BOP-operated facilities declined from 2017 to 2018, the mortality rate for federal prisoners increased by almost 2% between 2017 (246 deaths per 100,000 federal prisoners) and 2018 (250 per 100,000). The increase in the rate was due to the decrease in total number of federal prisoners during this period.

Cause of death

From 2001 to 2018, 87% of state prison deaths and 90% of federal prison deaths were due to illness. Suicide accounted for 6% of state prison deaths and almost 5% of federal prison deaths over the same period. The 311 suicides of state prisoners in 2018 represented a 20% increase from 2017 (259 suicides) and an 85% increase from 2001 (168 suicides).

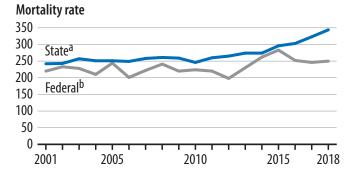
Homicide was the cause of 2% of state and nearly 3% of federal prison deaths. There were 120 homicides of state prisoners during 2018, including homicides committed by other prisoners, incidental to the use of force by staff, and resulting from injuries sustained prior to incarceration (figure 3). This marked a 6% increase from the 113 homicides in 2017.

Prisoners deaths compared to U.S. population

State prisoners were less likely to die in 2018 (319 per 100,000 state prisoners) than were adult U.S. residents (those age 18 or older) (419 per 100,000 adult U.S. residents) when the resident population was adjusted to the age, sex, and race or ethnicity distribution of state prisoners.² State prisoners had slightly higher mortality rates than the adjusted adult U.S. resident population in 2018 for cancer, liver disease, and suicide. The rate of death by homicide among state prisoners (10 per 100,000 state prisoners) was more than twice the rate among adult U.S. residents (4 per 100,000 adult U.S. residents) (figure 4).

FIGURE 2

Mortality rate per 100,000 state and federal prisoners, 2001–2018

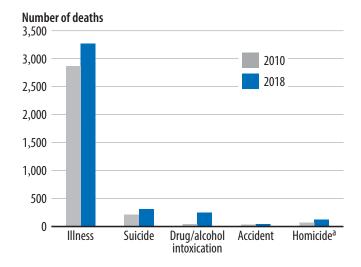


Note: Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31. See tables 4 and 6 for rates. alnoludes deaths in private state facilities.

^bExcludes deaths in private federal facilities.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2018, and National Prisoner Statistics, 2001–2018; and Federal Bureau of Prisons, 2001–2018.

FIGURE 3 Number of state prisoner deaths, by cause of death, 2010 and 2018



Note: Data may have been revised from previously published statistics. See table 1 for data.

^aIncludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2010 and 2018.

²The state prison population differed significantly from the U.S. resident population in terms of sex, age, and race or ethnicity. To make direct comparisons between the two populations, BJS adjusted the U.S. resident population to resemble the age, sex, and race or ethnicity distribution of state prisoners before calculating overall and cause-specific mortality rates. See *Methodology*.

Data sources

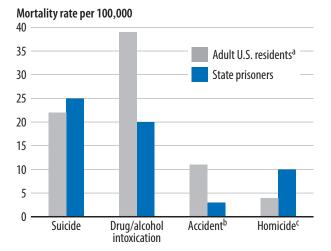
Findings in this report are from the Mortality in Correctional Institutions (MCI) data collection (formerly the Deaths in Custody Reporting Program), developed by BJS. The MCI is the only national statistical collection that obtains comprehensive information about deaths among prisoners and jail inmates in the custody of adult correctional facilities. This report reviews deaths in state and federal prisons from 2001 to 2018. Until 2015, BJS received aggregated mortality data from the BOP. In 2015, BJS began receiving individual-level data on deaths from the BOP. Data on mortality in local jails can be found in *Mortality in Local Jails*, 2000-2018 – Statistical Tables (NCJ 256002, BJS, April 2021).

Other key findings

- In 2018, a total of 22 state prisoners died from AIDS-related illnesses, a 92% decrease from 2001 (275 deaths) (table 1) (figure 5).
- From 2001 to 2018, a total of 1,258 state prisoners, or 2% of all deaths in state prisons, were due to homicide (table 2).
- Federal prisoners had a lower rate of suicide from 2001 to 2018 (11 suicides per 100,000 federal prisoners) than did state prisoners (17 per 100,000 state prisoners).
- Cancer and heart disease accounted for 53% of all state prison deaths from 2001 to 2018.
- Unnatural causes, including suicide, homicide, drug or alcohol intoxication, and accidents, accounted for 17% of deaths in state prisons in 2018 (table 3).
- The mortality rate for state prisoners due to cancer in 2018 (95 deaths per 100,000 state prisoners) was the highest since 2001 (table 4).
- State prisoners died from homicide in 2018 at a rate (10 per 100,000) 2.5 times that of the adult U.S. resident population (4 per 100,000) adjusted for sex, age, and race or ethnicity (table 5).
- In 2018, federal prisoners had a suicide rate of 19 per 100,000 federal prisoners, up from 16 per 100,000 in 2017 (table 6).
- In state prisons, the number of deaths and mortality rate of females increased by more than 37% between 2017 and 2018 (tables 7 and 9).
- Prisoners age 55 or older made up 34% of all state prison deaths in 2001 but nearly double that (61%) in 2018 (table 8).

FIGURE 4

Adjusted mortality rate per 100,000 U.S. residents, by cause of death, 2018



Note: Excludes persons younger than age 18 and federal prisoners. See table 5 for crude and adjusted rates.

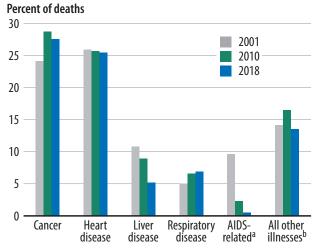
^aTo allow for direct comparisons of mortality rates, BJS adjusted the U.S. resident population to resemble the sex, race or ethnicity, and age distribution of the state prison population.

bExcludes causes of death that are unlikely to occur in prisons.

CIncludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration. Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2018, National Prisoner Statistics, 2018, Survey of Inmates in State Correctional Facilities, 2004, and Survey of Prison Inmates, 2016; and Centers for Disease Control and Prevention, National Center for Health Statistics, CDC WONDER online database, Underlying Cause of Death 2018 (released in 2020).

FIGURE 5

Percent of state prisoner deaths due to illness, by type of illness, 2001, 2010, and 2018



Note: Data may have been revised from previously published statistics. Includes deaths in private state facilities. See table 3 for data.

^aIncludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

bIncludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001, 2010, and 2018.

- American Indians and Alaska Natives accounted for 646 (1%) of all deaths in state prisons from 2001 to 2018 (table 10).
- In state prisons from 2001 to 2018, white prisoners had the highest average annual mortality rate for all causes of death other than AIDS (table 11).
- In 2018, more than one-third of deaths in state prisons (33.7%) occurred in the states with the largest prison systems: Texas (505 deaths), California (449), and Florida (440) (table 12).
- Ten states had fewer than 10 prisoner deaths in 2018, including North Dakota, which had none.
- The average annual mortality rate due to suicide was lowest in Alabama and Kentucky (9 deaths per 100,000 state residents), followed by Florida and North Carolina (10 per 100,000) (table 15).
- State prisons had a preliminary count of 3,293 deaths in 2019, based on data from 49 of the 50 state departments of corrections (table 16).

List of tables

- **TABLE 1.** Number of state and federal prisoner deaths, by cause of death, 2001 and 2008–2018
- **TABLE 2.** State and federal prisoner deaths, by cause of death, 2001–2018
- **TABLE 3.** Percent of state prisoner deaths, by cause of death, 2001 and 2008–2018
- **TABLE 4.** Mortality rate per 100,000 state prisoners, by cause of death, 2001 and 2008–2018
- TABLE 5. Crude and adjusted mortality rate per 100,000 U.S. residents, by cause of death, 2018
- TABLE 6. Mortality rate per 100,000 federal prisoners, by cause of death, 2001 and 2008–2018
- TABLE 7. Number of state prisoner deaths, by decedent characteristics, 2001 and 2008–2018
- TABLE 8. Percent of state prisoner deaths, by decedent characteristics, 2001 and 2008–2018
- **TABLE 9.** Mortality rate per 100,000 state prisoners, by decedent characteristics, 2001 and 2008–2018
- **TABLE 10.** Number of deaths in state prisons, by cause of death and decedent characteristics, 2001–2018
- **TABLE 11.** Average annual mortality rate per 100,000 state prisoners within each demographic group, by cause of death and decedent characteristics, 2001–2018
- **TABLE 12.** Number of prisoner deaths in state and federal facilities, by jurisdiction, 2001 and 2008–2018
- **TABLE 13.** Mortality rate per 100,000 state and federal prisoners, by jurisdiction, 2001 and 2008–2018
- **TABLE 14.** Number of prisoner deaths in state and federal facilities, by cause of death and jurisdiction, 2001–2018
- **TABLE 15.** Average annual mortality rate per 100,000 state and federal prisoners, by cause of death and jurisdiction, 2001–2018
- **TABLE 16.** Preliminary number and percent of deaths in state prisons, by selected causes of death, 2019

Continued on next page

List of figures

- FIGURE 1. Number of state and federal prisoner deaths, 2001–2018
- FIGURE 2. Mortality rate per 100,000 state and federal prisoners, 2001–2018
- FIGURE 3. Number of state prisoner deaths, by cause of death, 2010 and 2018
- FIGURE 4. Adjusted mortality rate per 100,000 U.S. residents, by cause of death, 2018
- FIGURE 5. Percent of state prisoner deaths due to illness, by type of illness, 2001, 2010, and 2018

List of appendix tables

APPENDIX TABLE 1. Estimated number of state and federal prisoners in custody, by prisoner characteristics, 2001 and 2008–2018

APPENDIX TABLE 2. Deaths of federal prisoners in federally and privately operated prison facilities, by cause of death, 2015–2018

APPENDIX TABLE 3. Illness mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

APPENDIX TABLE 4. Cancer mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

APPENDIX TABLE 5. Heart disease mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

APPENDIX TABLE 6. Liver disease mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

APPENDIX TABLE 7. Respiratory disease mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

APPENDIX TABLE 8. Mortality rate due to all other illnesses per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

APPENDIX TABLE 9. Rate of unnatural deaths per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

TABLE 1Number of state and federal prisoner deaths, by cause of death, 2001 and 2008–2018

| Cause of death | 2001 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Total | 3,170 | 3,851 | 3,793 | 3,620 | 3,738 | 3,707 | 3,878 | 3,928 | 4,137 | 4,117 | 4,324 | 4,513 |
| Federal ^a | 301 | 399 | 376 | 387 | 387 | 350 | 400 | 444 | 455 | 388 | 381 | 378 |
| State ^b | 2,869 | 3,452 | 3,417 | 3,233 | 3,351 | 3,357 | 3,478 | 3,484 | 3,682 | 3,729 | 3,943 | 4,135 |
| Illness | 2,567 | 3,036 | 3,027 | 2,865 | 2,979 | 2,959 | 3,081 | 3,032 | 3,226 | 3,197 | 3,258 | 3,272 |
| Heart disease | 743 | 845 | 850 | 830 | 854 | 804 | 897 | 896 | 986 | 1,028 | 1,095 | 1,052 |
| Cancer | 691 | 907 | 978 | 927 | 1,028 | 1,024 | 1,065 | 1,050 | 1,122 | 1,130 | 1,110 | 1,137 |
| Liver disease | 310 | 319 | 337 | 288 | 340 | 307 | 357 | 318 | 302 | 263 | 246 | 215 |
| AIDS-related ^c | 275 | 99 | 98 | 73 | 57 | 74 | 52 | 64 | 45 | 31 | 37 | 22 |
| Respiratory disease | 144 | 250 | 195 | 212 | 204 | 220 | 196 | 233 | 241 | 220 | 252 | 287 |
| All other illnesses ^d | 404 | 616 | 569 | 535 | 496 | 530 | 514 | 471 | 530 | 525 | 518 | 559 |
| Suicide | 168 | 197 | 202 | 215 | 185 | 205 | 192 | 249 | 219 | 255 | 259 | 311 |
| Drug/alcohol intoxication | 35 | 58 | 51 | 41 | 58 | 33 | 56 | 50 | 81 | 104 | 203 | 249 |
| Accident | 22 | 26 | 32 | 32 | 38 | 50 | 34 | 39 | 39 | 41 | 45 | 43 |
| Homicide ^e | 39 | 40 | 54 | 70 | 70 | 85 | 90 | 83 | 84 | 96 | 113 | 120 |
| Other causes | 0 | 95 | 17 | 7 | 12 | 14 | 18 | 10 | 20 | 23 | 27 | 37 |
| Missing/unknown | 38 | 0 | 34 | 3 | 9 | 11 | 7 | 21 | 13 | 13 | 38 | 103 |

Note: Data may have been revised from previously published statistics. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*.

^aExcludes deaths in private federal facilities. Until 2015, federal deaths were submitted as an aggregate count by the Federal Bureau of Prisons (BOP), with limited details regarding cause of death, and excluded deaths in private federal facilities. See appendix table 2 for deaths from 2015 to 2018 in federal prison facilities operated by the BOP or operated privately under a BOP contract.

bIncludes deaths in private state facilities.

^cIncludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

dIncludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses. eIncludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration. Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001 and 2008–2018; and Federal Bureau of Prisons, 2001 and 2008–2018.

TABLE 2State and federal prisoner deaths, by cause of death, 2001–2018

| | | State prisonersa | | | Federal prisonersb | |
|---------------------------|------------------|-------------------|----------------------------|------------------|--------------------|----------------------------|
| Cause of death | Number of deaths | Percent of deaths | Mortality rate per 100,000 | Number of deaths | Percent of deaths | Mortality rate per 100,000 |
| All causes | 61,130 | 100% | 269 | 6,744 | 100% | 232 |
| Illness | 53,355 | 87.3% | 235 | 6,051 | 89.7% | 208 |
| Heart disease | 15,855 | 25.9 | 70 | | | |
| Cancer | 16,777 | 27.4 | 74 | ••• | | |
| Liver disease | 5,432 | 8.9 | 24 | | ••• | |
| AIDS-related ^c | 1,932 | 3.2 | 9 | 167 | 2.5 | 6 |
| Respiratory disease | 3,824 | 6.3 | 17 | | | |
| All other illnessesd | 9,535 | 15.6 | 42 | ••• | | |
| Suicide | 3,870 | 6.3% | 17 | 313 | 4.6% | 11 |
| Drug/alcohol intoxication | 1,235 | 2.0% | 5 | | | |
| Accident ^e | 618 | 1.0% | 3 | 102 | 1.5% | 4 |
| Homicide ^f | 1,258 | 2.1% | 6 | 182 | 2.7% | 6 |
| Other causes | 415 | 0.7% | 2 | 0 | 0.0% | 0 |
| Missing/unknown | 379 | 0.6% | 2 | 96 | 1.4% | 3 |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to rounding. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

^{...}Not available.

^aIncludes deaths in private state facilities.

^bData on cause of death for federal prisoners were not available for all causes. Excludes deaths in private federal facilities.

^CIncludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

dincludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses. elncludes death by intoxication among federal prisoners.

function function for the use of force by staff, or resulting from injuries sustained prior to incarceration. Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2018; and Federal Bureau of Prisons, 2001–2018.

TABLE 3 Percent of state prisoner deaths, by cause of death, 2001 and 2008–2018 Cause of death 2001 2008 2009 2010 2011 2012 2014 2015 2016 2017 2018 100% All causes 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% Illness 89.5% 87.9% 88.6% 88.6% 88.9% 88.1% 88.6% 87.0% 87.6% 85.7% 82.6% 79.1% Heart disease 25.9 24.5 25.5 23.9 24.9 25.7 25.8 25.7 26.8 27.6 27.8 25.4 Cancer 24.1 26.3 28.6 28.7 30.7 30.5 30.6 30.1 30.5 30.3 28.2 27.5 Liver disease 10.8 9.2 9.9 8.9 10.1 9.1 10.3 9.1 8.2 7.1 6.2 5.2 AIDS-relateda 9.6 2.9 2.9 2.3 1.7 2.2 1.5 1.8 1.2 0.8 0.9 0.5 Respiratory 7.2 5.7 6.7 5.9 6.9 disease 5.0 6.6 6.1 6.6 5.6 6.5 6.4 All other illnessesb 14.1 17.8 16.7 16.5 14.8 15.8 14.8 13.5 14.4 14.1 13.1 13.5 Suicide 5.7% 5.9% 6.7% 5.5% 6.1% 5.5% 7.1% 5.9% 6.6% 7.5% 5.9% 6.8% Drug/alcohol 1.7% 1.4% 6.0% intoxication 1.2% 1.7% 1.5% 1.3% 1.0% 1.6% 2.2% 2.8% 5.1% 0.9% 1.0% Accident 0.8% 0.8% 1.0% 1.1% 1.5% 1.0% 1.1% 1.1% 1.1% 1.1% Homicide^c 2.1% 2.5% 2.6% 2.4% 2.3% 2.6% 2.9% 2.9% 1.4% 1.2% 1.6% 2.2% Other causes 0.0% 2.8% 0.5% 0.2% 0.4% 0.4% 0.5% 0.3% 0.5% 0.6% 0.7% 0.9% Missing/unknown 1.3% 0.0% 1.0% 0.1% 0.3% 0.3% 0.2% 0.6% 0.4% 0.3% 1.0% 2.5%

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to rounding. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*. Includes deaths in private state facilities. alnoludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

bIncludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses. CIncludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration. Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001 and 2008–2018.

| TABLE 4 Mortality rate per 100,000 state prisoners, by cause of death, 2001 and 2008–2018 | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Cause of death | 2001 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| All causes | 242 | 261 | 259 | 246 | 260 | 265 | 274 | 274 | 296 | 303 | 323 | 344 |
| Illness | 217 | 229 | 229 | 218 | 231 | 234 | 243 | 239 | 259 | 260 | 267 | 273 |
| Heart disease | 63 | 64 | 64 | 63 | 66 | 63 | 71 | 71 | 79 | 84 | 90 | 88 |
| Cancer | 58 | 68 | 74 | 71 | 80 | 81 | 84 | 83 | 90 | 92 | 91 | 95 |
| Liver disease | 26 | 24 | 26 | 22 | 26 | 24 | 28 | 25 | 24 | 21 | 20 | 18 |
| AIDS-related ^a | 23 | 7 | 7 | 6 | 4 | 6 | 4 | 5 | 4 | 3 | 3 | 2 |
| Respiratory disease | 12 | 19 | 15 | 16 | 16 | 17 | 15 | 18 | 19 | 18 | 21 | 24 |
| All other illnessesb | 34 | 47 | 43 | 41 | 38 | 42 | 40 | 37 | 43 | 43 | 42 | 47 |
| Suicide | 14 | 15 | 15 | 16 | 14 | 16 | 15 | 20 | 18 | 21 | 21 | 26 |
| Drug/alcohol intoxication | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 7 | 8 | 17 | 21 |
| Accident | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 4 |
| Homicide ^c | 3 | 3 | 4 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 9 | 10 |
| Other causes | 0 | 7 | 1 | 1! | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 |
| Missing/unknown | 3 | 0 | 3 | 0! | 1! | 1 | 1! | 2 | 1 | 1 | 3 | 9 |

Note: Data may have been revised from previously published statistics. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected *Findings* (NCJ 253060, BJS, July 2019). See *Methodology*. Includes deaths in private state facilities. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

[!] Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

^aIncludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

bIncludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses. Cincludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration. Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001 and 2008–2018; and National Prisoner Statistics, 2001 and 2008–2018.

TABLE 5Crude and adjusted mortality rate per 100,000 U.S. residents, by cause of death, 2018

| Cause of death | Crude rate per 100,000 adult U.S. residents | Adjusted rate per 100,000 adult U.S. residents ^a | Prison annual mortality rate per 100,000 state prisoners ^b |
|----------------------------------|---|---|---|
| All causes | 1,110 | 419 | 319 |
| Illness | 1,040 | 344 | 261 |
| Heart disease | 265 | 96 | 84 |
| Cancer | 242 | 81 | 91 |
| Liver disease | 23 | 15 | 17 |
| AIDS-related ^c | 2 | 5 | 2 |
| Respiratory disease | 114 | 27 | 23 |
| All other illnesses ^d | 395 | 121 | 45 |
| Suicide | 19 | 22 | 25 |
| Drug/alcohol intoxication | 27 | 39 | 20 |
| Accident ^e | 22 | 11 | 3 |
| Homicide ^f | 2 | 4 | 10 |

Note: Includes deaths in private state facilities. Excludes persons younger than age 18 and federal prisoners.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2018, National Prisoner Statistics, 2018, Survey of Inmates in State Correctional Facilities, 2004, and Survey of Prison Inmates, 2016; and Centers for Disease Control and Prevention, National Center for Health Statistics, CDC WONDER online database, Underlying Cause of Death 2018 (released in 2020).

TABLE 6Mortality rate per 100,000 federal prisoners, by cause of death, 2001 and 2008–2018

| Cause of death | 2001 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| All causes | 220 | 241 | 220 | 224 | 220 | 198 | 230 | 262 | 283 | 252 | 246 | 250 |
| Illness | 196 | 217 | 198 | 203 | 204 | 182 | 213 | 238 | 249 | 220 | 208 | 190 |
| AIDS-related ^a | 16 | 8 | 4! | 4! | 2! | 3! | 2! | 0 | 1! | 1! | 4! | 0 |
| Suicide | 13 | 13 | 12 | 6 | 10 | 11 | 8 | 14 | 12 | 12 | 16 | 19 |
| Accident ^b | 4! | 4! | 3! | 1! | 1! | 2! | 2! | 1! | 10 | 9 | 5! | 9 |
| Homicide ^c | 6! | 8 | 4! | 10 | 5! | 3! | 7 | 8 | 10 | 9 | 6 | 8 |
| Other/unknown | 0 | 1! | 4! | 3! | 1! | 1! | 1! | 0 | 2! | 2! | 11 | 24 |

Note: Excludes deaths in private federal facilities. Until 2015, federal deaths were submitted as an aggregate count by the Federal Bureau of Prisons (BOP), with limited details regarding cause of death, and excluded deaths in private federal facilities. See appendix table 2 for deaths from 2015 to 2018 in federal prison facilities operated by the BOP or operated privately under a BOP contract. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

! Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

Clincludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration. Source: Bureau of Justice Statistics, National Prisoner Statistics, 2001 and 2008–2018; and Federal Bureau of Prisons, 2001 and 2008–2018.

^aPopulation adjusted to resemble the sex, race or ethnicity, and age distribution of the state prison population.

^bMortality rates may differ from those presented elsewhere in this report due to the removal of state prisoners younger than age 18 from both the numerator (deaths) and denominator (state prison population) and the exclusion of deaths for which cause of death was unknown or missing. These changes were made solely to table 5 to make the mortality rates comparable to those in the U.S. resident population.

^CIncludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death. ^dIncludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

^eExcludes causes of death that are unlikely to occur in prisons, such as motor vehicle accidents, neglect and abandonment, and injury by firearms or explosives unrelated to law enforcement incidents.

fincludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration.

^aIncludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

blncludes deaths due to drug or alcohol intoxication.

TABLE 7 Number of state prisoner deaths, by decedent characteristics, 2001 and 2008–2018 2008 2010 2011 Characteristic 2001 2009 2012 2013 2014 2015 2016 2017 2018 Total 2,869 3,452 3,417 3,233 3,351 3,357 3,478 3,484 3,682 3,729 3,943 4,135 Sex 3,586 2,769 3,208 3,954 Male 3,289 3,267 3,116 3,244 3,337 3,330 3,533 3,811 Female 100 163 150 117 143 113 141 154 149 143 131 180 Race/ethnicity Whitea 1,340 1,822 1,774 1,680 1,912 1,789 1,901 1,921 2,040 2,063 2,156 2,198 Blacka 1,161 1,157 1,199 1,121 1,037 1,113 1,104 1,108 1,189 1,201 1,268 1,352 Hispanic 322 400 372 359 329 379 402 368 367 382 437 503 American Indian/ 25 36 31 36 40 37 43 52 51 47 48 Alaska Native^a 36 Asian/Native Hawaiian/ Other Pacific Islander/ 16 37 27 25 25 30 33 44 33 29 27 30 two or more racesa Age 2 3 0 3 2 0 0 2 0 1 0 17 or younger 1 18-24 86 67 69 69 50 69 69 56 68 72 60 66 25 - 34256 222 210 217 200 190 221 221 226 246 308 328 35-44 468 467 382 397 360 334 335 342 379 405 421 656 795 45-54 893 1,063 1,039 956 930 876 861 821 721 697 776 55 or older 972 1,629 1,631 1,606 1,771 1,862 1,993 2,049 2,250 2,298 2,472 2,543

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*. Includes deaths in private state facilities. a Excludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001 and 2008–2018.

| Characteristic | 2001 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Sex | | | | | | | | | | | | |
| Male | 96.5% | 95.3% | 95.6% | 96.4% | 95.7% | 96.6% | 96.0% | 95.6% | 96.0% | 96.2% | 96.7% | 95.6% |
| Female | 3.5 | 4.7 | 4.4 | 3.6 | 4.3 | 3.4 | 4.1 | 4.4 | 4.1 | 3.8 | 3.3 | 4.4 |
| Race/ethnicity | | | | | | | | | | | | |
| Whitea | 46.7% | 52.8% | 51.9% | 52.0% | 57.1% | 53.3% | 54.7% | 55.1% | 55.4% | 55.3% | 54.7% | 53.2% |
| Black ^a | 40.5 | 33.5 | 35.1 | 34.7 | 31.0 | 33.2 | 31.7 | 31.8 | 32.3 | 32.2 | 32.2 | 32.7 |
| Hispanic | 11.2 | 11.6 | 10.9 | 11.1 | 9.8 | 11.3 | 11.6 | 10.6 | 10.0 | 10.2 | 11.1 | 12.2 |
| American Indian/ Alaska Native ^a | 0.9 | 1.0 | 0.9 | 1.1 | 1.1 | 1.2 | 1.1 | 1.2 | 1.4 | 1.4 | 1.2 | 1.2 |
| Asian/Native Hawaiian/ Other Pacific Islander/ two or more races ^a | 0.6 | 1.1 | 0.8 | 0.8 | 0.8 | 0.9 | 1.0 | 1.3 | 0.9 | 0.8 | 0.7 | 0.7 |
| Age | | | | | | | | | | | | |
| 17 or younger | <0.1% | <0.1% | 0.0% | <0.1% | <0.1% | 0.0% | 0.0% | <0.1% | 0.0% | <0.1% | <0.1% | 0.0% |
| 18–24 | 3.0 | 1.9 | 2.0 | 2.1 | 1.5 | 2.1 | 2.0 | 1.6 | 1.9 | 1.9 | 1.5 | 1.6 |
| 25-34 | 8.9 | 6.4 | 6.2 | 6.7 | 6.0 | 5.7 | 6.4 | 6.3 | 6.1 | 6.6 | 7.8 | 7.9 |
| 35-44 | 22.9 | 13.6 | 13.7 | 11.8 | 11.9 | 10.7 | 9.6 | 9.6 | 9.3 | 10.2 | 10.3 | 10.2 |
| 45-54 | 31.1 | 30.8 | 30.4 | 29.6 | 27.8 | 26.1 | 24.8 | 23.6 | 21.6 | 19.3 | 17.7 | 18.8 |
| 55 or older | 33.9 | 47.2 | 47.7 | 49.7 | 52.9 | 55.5 | 57.3 | 58.8 | 61.1 | 61.6 | 62.7 | 61.5 |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to rounding and missing data. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*. Includes deaths in private state facilities.

^aExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks). Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001 and 2008–2018.

| TABLE 9 Mortality rate per 100,000 state prisoners, by decedent characteristics, 2001 and 2008–2018 | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Characteristic | 2001 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Total | 242 | 261 | 259 | 246 | 260 | 265 | 274 | 274 | 296 | 303 | 323 | 344 |
| Sex | | | | | | | | | | | | |
| Male | 250 | 267 | 266 | 255 | 267 | 275 | 282 | 282 | 306 | 315 | 337 | 356 |
| Female | 131 | 173 | 163 | 128 | 160 | 131 | 159 | 171 | 167 | 161 | 148 | 203 |
| Race/ethnicity | | | | | | | | | | | | |
| Whitea | 345 | 413 | 412 | 396 | 461 | 439 | 468 | 473 | 515 | 535 | 561 | 580 |
| Black ^a | 234 | 230 | 243 | 233 | 222 | 245 | 246 | 254 | 282 | 293 | 316 | 344 |
| Hispanic | 139 | 147 | 134 | 129 | 121 | 145 | 153 | 141 | 142 | 144 | 164 | 191 |
| Other ^{a,b} | 59 | 67 | 49 | 47 | 45 | 49 | 45 | 53 | 50 | 48 | 44 | 47 |
| Age | | | | | | | | | | | | |
| 17 or younger | 68! | 115! | 0 | 140! | 111! | 0 | 0 | 206! | 0 | 120! | 126! | 0 |
| 18–24 | 39 | 34 | 35 | 35 | 26 | 38 | 40 | 35 | 47 | 53 | 48 | 58 |
| 25-34 | 64 | 51 | 48 | 50 | 47 | 46 | 53 | 53 | 55 | 61 | 78 | 85 |
| 35-44 | 181 | 131 | 136 | 114 | 123 | 113 | 104 | 104 | 106 | 117 | 124 | 128 |
| 45-54 | 584 | 442 | 427 | 389 | 384 | 368 | 364 | 349 | 347 | 321 | 317 | 363 |
| 55 or older | 2,032 | 1,859 | 1,737 | 1,580 | 1,632 | 1,615 | 1,619 | 1,563 | 1,618 | 1,579 | 1,624 | 1,606 |

Note: Data may have been revised from previously published statistics. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). Includes deaths in private state facilities. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

! Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

^aExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

blincludes Asians, Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races. Due to the small number of deaths and prison populations of American Indians and Alaska Natives, Asians, and Native Hawaiians and Other Pacific Islanders, mortality rates for these populations are unstable and not shown. See *Methodology*.

TABLE 10Number of deaths in state prisons, by cause of death and decedent characteristics, 2001–2018

| | | | | | Illness | | | | | | |
|---|-------------------------|------------------|--------|------------------|-------------------------------|---------------------|----------------------------------|---------|---------------------------|----------|-----------|
| Characteristic | All causes ^a | Heart disease | Cancer | Liver disease | AIDS- related ^b | Respiratory disease | All other illnesses ^c | Suicide | Drug/alcohol intoxication | Accident | Homicided |
| Total | 61,130 | 15,855 | 16,777 | 5,432 | 1,932 | 3,824 | 9,535 | 3,870 | 1,235 | 618 | 1,258 |
| Sex | | | | | | | | | | | |
| Male | 58,651 | 15,324 | 16,143 | 5,242 | 1,834 | 3,631 | 9,016 | 3,663 | 1,191 | 599 | 1,251 |
| Female | 2,476 | 531 | 634 | 190 | 98 | 193 | 518 | 207 | 44 | 19 | 7 |
| Race/ethnicity | | | | | | | | | | | |
| White ^e | 32,102 | 8,473 | 9,262 | 3,025 | 437 | 2,203 | 4,489 | 2,268 | 639 | 351 | 561 |
| Black ^e | 21,076 | 5,887 | 5,784 | 1,219 | 1,272 | 1,211 | 3,641 | 809 | 306 | 170 | 447 |
| Hispanic | 6,703 | 1,242 | 1,447 | 1,044 | 203 | 356 | 1,215 | 615 | 237 | 79 | 213 |
| American Indian/ Alaska Native ^e | 646 | 142 | 141 | 99 | 11 | 27 | 93 | 67 | 35 | 11 | 13 |
| Asian/Native Hawaiian/ Other Pacific Islander/ two or more races ^e | 504 | 94 | 118 | 35 | 8 | 21 | 80 | 96 | 17 | 5 | 22 |
| Age | | | | | | | | | | | |
| 17 or younger | 22 | 2 | 4 | 1 | 0 | 1 | 1 | 11 | 0 | 1 | 1 |
| 18-24 | 1,207 | 143 | 72 | 15 | 19 | 62 | 138 | 486 | 67 | 41 | 140 |
| 25-34 | 4,344 | 716 | 376 | 87 | 247 | 203 | 553 | 1,243 | 323 | 106 | 371 |
| 35-44 | 8,566 | 1,970 | 1,384 | 636 | 743 | 400 | 1,313 | 1,098 | 394 | 151 | 322 |
| 45-54 | 16,380 | 3,875 | 4,508 | 2,345 | 656 | 768 | 2,662 | 705 | 305 | 131 | 238 |
| 55 or older | 30,584 | 9,145 | 10,429 | 2,345 | 267 | 2,389 | 4,864 | 325 | 146 | 187 | 185 |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*. Includes deaths in private state facilities. There were 99 prisoners whose race or ethnicity was unknown, 27 whose age was unknown, and 3 whose sex was unknown.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2018.

^aIncludes other causes not specified and missing and unknown causes.

blincludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

^CIncludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

dIncludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration.

^eExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

TABLE 11Average annual mortality rate per 100,000 state prisoners within each demographic group, by cause of death and decedent characteristics, 2001–2018

| | | | | | Illness | | | | | | |
|----------------------|-------------------------|------------------|--------|------------------|-------------------------------|---------------------|----------------------------------|---------|---------------------------|----------|-----------|
| Characteristic | All causes ^a | Heart disease | Cancer | Liver disease | AIDS- related ^b | Respiratory disease | All other illnesses ^c | Suicide | Drug/alcohol intoxication | Accident | Homicided |
| Total | 269 | 70 | 74 | 24 | 9 | 17 | 42 | 17 | 5 | 3 | 6 |
| Sex | | | | | | | | | | | |
| Male | 278 | 73 | 76 | 25 | 9 | 17 | 43 | 17 | 6 | 3 | 6 |
| Female | 156 | 33 | 40 | 12 | 6 | 12 | 33 | 13 | 3 | 1 | 0 |
| Race/ethnicity | | | | | | | | | | | |
| Whitee | 432 | 114 | 125 | 41 | 6 | 30 | 60 | 31 | 9 | 5 | 8 |
| Blacke | 252 | 70 | 69 | 15 | 15 | 14 | 43 | 10 | 4 | 2 | 5 |
| Hispanic | 142 | 26 | 31 | 22 | 4 | 8 | 26 | 13 | 5 | 2 | 5 |
| Other ^{e,f} | 53 | 11 | 12 | 6 | 1 | 2 | 8 | 8 | 2 | 1 | 2 |
| Age | | | | | | | | | | | |
| 17 or younger | 67! | 6! | 12! | 3! | 0! | 3! | 3! | 33! | 0 | 3! | 3! |
| 18–24 | 37 | 4 | 2 | 0 | 1 | 2 | 4 | 15 | 2 | 1 | 4 |
| 25-34 | 58 | 10 | 5 | 1 | 3 | 3 | 7 | 17 | 4 | 1 | 5 |
| 35-44 | 138 | 32 | 22 | 10 | 12 | 6 | 21 | 18 | 6 | 2 | 5 |
| 45-54 | 419 | 99 | 115 | 60 | 17 | 20 | 68 | 18 | 8 | 3 | 6 |
| 55 or older | 1,704 | 509 | 581 | 131 | 15 | 133 | 271 | 18 | 8 | 10 | 10 |

Note: Data may have been revised from previously published statistics. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). Includes deaths in private state facilities. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

TABLE 12

Idaho

Illinois

Indiana

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2018; National Inmate Survey, 2007–2009, 2011, and 2012; National Prisoner Statistics, 2001–2016; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.

Number of prisoner deaths in state and federal facilities, by jurisdiction, 2001 and 2008–2018 Jurisdiction Federal^a Stateb 2,869 3,452 3,417 3.233 3,351 3,357 3,478 3,484 3.682 3,729 3.943 4,135 Alabama Alaskac Arizona Arkansas California Colorado Connecticut^d Delaware^d Florida Georgia Hawaiid

Continued on next page

[!] Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

alncludes other causes not specified and missing and unknown causes.

blincludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

^CIncludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

dIncludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration.

eExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

function of Alaska Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races. Due to the small number of deaths and prison populations of American Indians and Alaska Natives, Asians, and Native Hawaiians and Other Pacific Islanders, mortality rates for these populations are unstable and not shown. See *Methodology*.

| urisdiction | 2001 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| lowa | 9 | 21 | 14 | 13 | 12 | 20 | 16 | 15 | 19 | 29 | 16 | 19 |
| Kansas | 21 | 24 | 20 | 22 | 25 | 17 | 28 | 21 | 25 | 35 | 26 | 33 |
| Kentucky | 36 | 68 | 57 | 42 | 60 | 55 | 40 | 44 | 60 | 42 | 70 | 50 |
| Louisiana | 71 | 117 | 108 | 100 | 108 | 116 | 118 | 118 | 113 | 123 | 115 | 114 |
| Maine | 6 | 2 | 4 | 3 | 5 | 2 | 3 | 7 | 5 | 5 | 4 | 8 |
| Maryland | 70 | 69 | 56 | 40 | 41 | 46 | 58 | 43 | 62 | 49 | 57 | 57 |
| Massachusetts | 29 | 29 | 29 | 39 | 33 | 42 | 39 | 45 | 34 | 34 | 37 | 42 |
| Michigan | 114 | 99 | 148 | 93 | 119 | 124 | 124 | 121 | 118 | 106 | 106 | 135 |
| Minnesota | 13 | 17 | 12 | 16 | 19 | 14 | 20 | 14 | 11 | 18 | 6 | 6 |
| Mississippi | 36 | 54 | 52 | 52 | 47 | 41 | 68 | 50 | 45 | 65 | 77 | 76 |
| Missouri | 57 | 87 | 81 | 88 | 74 | 71 | 92 | 97 | 106 | 99 | 94 | 106 |
| Montana | 6 | 9 | 3 | 2 | 6 | 11 | 7 | 19 | 13 | 16 | 13 | Ĺ |
| Nebraska | 7 | 6 | 11 | 12 | 17 | 11 | 16 | 13 | 17 | 9 | 16 | 1(|
| Nevada | 27 | 35 | 35 | 41 | 34 | 37 | 35 | 44 | 47 | 42 | 47 | 29 |
| New Hampshire | 2 | 5 | 9 | 4 | 10 | 5 | 8 | 5 | 8 | 9 | 5 | |
| New Jersey | 69 | 66 | 58 | 56 | 66 | 48 | 46 | 50 | 52 | 49 | 39 | 33 |
| New Mexico | 11 | 29 | 21 | 16 | 16 | 14 | 17 | 24 | 19 | 16 | 18 | 2 |
| New York | 175 | 133 | 142 | 124 | 117 | 115 | 142 | 123 | 115 | 147 | 143 | 138 |
| North Carolina | 66 | 117 | 86 | 87 | 71 | 79 | 81 | 94 | 90 | 127 | 104 | 118 |
| North Dakota | 3 | 0 | 0 | 1 | 1 | 3 | 1 | 0 | 0 | 4 | 2 | (|
| Ohio | 115 | 101 | 120 | 116 | 111 | 126 | 124 | 111 | 138 | 133 | 149 | 15 |
| Oklahoma | 51 | 88 | 79 | 60 | 85 | 79 | 87 | 107 | 107 | 93 | 86 | 113 |
| Oregon | 24 | 31 | 34 | 39 | 40 | 26 | 30 | 31 | 37 | 47 | 25 | 34 |
| Pennsylvania | 122 | 145 | 165 | 141 | 157 | 157 | 157 | 145 | 166 | 171 | 181 | 166 |
| Rhode Island ^d | 3 | 6 | 7 | 7 | 10 | 6 | 4 | 7 | 5 | 2 | 8 | ! |
| South Carolina | 69 | 83 | 49 | 70 | 55 | 58 | 66 | 66 | 76 | 79 | 105 | 100 |
| South Dakota | 4 | 6 | 4 | 8 | 11 | 9 | 6 | 7 | 7 | 5 | 12 | |
| Tennessee | 51 | 74 | 69 | 74 | 59 | 84 | 82 | 83 | 94 | 102 | 96 | 12 |
| Texas | 408 | 469 | 426 | 375 | 417 | 462 | 438 | 409 | 418 | 403 | 469 | 50 |
| Utah | 5 | 11 | 17 | 13 | 12 | 15 | 23 | 23 | 16 | 21 | 20 | 1 |
| Vermont ^d | 3 | 3 | 3 | 5 | 0 | 2 | 8 | 6 | 4 | 7 | 4 | |
| Virginia | 71 | 86 | 87 | 93 | 99 | 86 | 82 | 90 | 90 | 90 | 93 | 10 |
| Washington | 29 | 35 | 44 | 35 | 21 | 33 | 39 | 38 | 42 | 28 | 40 | 3 |
| West Virginia | 17 | 19 | 18 | 20 | 23 | 24 | 26 | 24 | 28 | 26 | 29 | 3- |
| Wisconsin | 48 | 44 | 42 | 25 | 48 | 46 | 43 | 58 | 46 | 66 | 43 | 5 |
| **1300113111 | - | 77 | 74 | 23 | 70 | - +0 | -TJ | 50 | - | 30 | 7.5 | |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*.

12

Wyoming

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001 and 2008–2018; and Federal Bureau of Prisons, 2001 and 2008–2018.

8

6

11

^aExcludes deaths in private federal facilities. Until 2015, federal deaths were submitted as an aggregate count by the Federal Bureau of Prisons (BOP), with limited details regarding cause of death, and excluded deaths in private federal facilities. See appendix table 2 for deaths from 2015 to 2018 in federal prison facilities operated by the BOP or operated privately under a BOP contract.

^bIncludes deaths in private state facilities. Includes nine prisoner deaths reported by the District of Columbia in 2001. As of December 30, 2001, sentenced felons from the District of Columbia were the responsibility of the BOP.

^CPrisons and jails form one integrated system. Counts include deaths only in state-operated prisons and jails and exclude deaths in 15 locally operated jails.

dPrisons and jails form one integrated system. Data include the total jail and prison population.

| Mortality rate pe | er 100.00 | 00 state a | and fede | ral priso | ners, by | jurisdict | ion, 200 | 1 and 20 | 08-2018 | 3 | | |
|---------------------------|-----------|------------|----------|------------|----------|-----------|----------|----------|---------|-------|------|------|
| Jurisdiction | 2001 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Federal ^a | 220 | 241 | 220 | 224 | 220 | 198 | 230 | 262 | 283 | 252 | 246 | 250 |
| State ^b | 242 | 261 | 259 | 246 | 260 | 265 | 274 | 274 | 296 | 303 | 323 | 344 |
| Alabama | 352 | 296 | 294 | 241 | 388 | 321 | 399 | 390 | 444 | 497 | 531 | 588 |
| Alaska ^c | 175! | 280 | 128! | 242 | 193 | 174 | 157! | 190 | 286 | 228 | 206! | 260 |
| Arizona | 231 | 195 | 210 | 212 | 215 | 217 | 232 | 235 | 249 | 298 | 317 | 312 |
| Arkansas | 366 | 312 | 375 | 380 | 355 | 306 | 392 | 374 | 342 | 448 | 510 | 488 |
| California | 183 | 217 | 234 | 254 | 263 | 277 | 272 | 236 | 276 | 258 | 295 | 352 |
| Colorado | 243 | 164 | 216 | 211 | 169 | 236 | 198 | 171 | 256 | 293 | 209 | 275 |
| Connecticut ^d | 171 | 161 | 153 | 113 | 106 | 140 | 115 | 143 | 144 | 113 | 103 | 212 |
| Delaware ^d | 234 | 216 | 182 | 361 | 229 | 149 | 206 | 267 | 264 | 221 | 163 | 287 |
| Florida | 251 | 291 | 274 | 269 | 294 | 325 | 302 | 343 | 356 | 363 | 443 | 460 |
| Georgia | 202 | 243 | 233 | 212 | 229 | 187 | 227 | 230 | 252 | 249 | 323 | 306 |
| Hawaii ^d | 137! | 257 | 227 | 227 | 110! | 227 | 271 | 148! | 74! | 174! | 78! | 120! |
| Idaho | 323 | 256 | 181 | 180 | 174 | 117! | 139 | 307 | 249 | 222 | 196 | 273 |
| Illinois | 194 | 156 | 166 | 194 | 200 | 172 | 160 | 182 | 260 | 206 | 253 | 208 |
| Indiana | 234 | 265 | 340 | 253 | 270 | 210 | 232 | 215 | 320 | 278 | 264 | 252 |
| lowa | 113! | 241 | 157 | 137 | 132 | 229 | 184 | 170 | 214 | 320 | 177 | 201 |
| | 245 | 281 | 231 | 243 | 268 | 179 | 291 | 220 | 262 | 363 | 268 | 332 |
| Kansas | 336 | 446 | 380 | 243 290 | 429 | 423 | 329 | 363 | 502 | 354 | 583 | 381 |
| Kentucky | | | | | | | | | | | | |
| Louisiana ^e | 361 | 561 | 543 | 526 | 573 | 624 | 628 | 631 | 613 | 817 | 759 | 766 |
| Maine | 358! | 98! | 193! | 154! | 253! | 101! | 145! | 318! | 228! | 212! | 170! | 336! |
| Maryland | 295 | 298 | 254 | 175 | 178 | 211 | 267 | 202 | 296 | 242 | 286 | 297 |
| Massachusetts | 284 | 260 | 260 | 349 | 288 | 377 | 367 | 431 | 358 | 376 | 418 | 497 |
| Michigan | 233 | 203 | 325 | 211 | 277 | 284 | 284 | 279 | 277 | 258 | 267 | 348 |
| Minnesota | 203 | 188 | 126 | 170 | 204 | 149 | 213 | 146 | 115 | 189 | 63! | 64! |
| Mississippi | 238 | 302 | 302 | 316 | 305 | 260 | 436 | 383 | 322 | 474 | 568 | 572 |
| Missouri | 199 | 289 | 265 | 288 | 239 | 228 | 292 | 304 | 328 | 305 | 289 | 349 |
| Montana | 215! | 309! | 97! | 64! | 192! | 355 | 224! | 609 | 409 | 500 | 409 | 130! |
| Nebraska | 179! | 134! | 245 | 260 | 365 | 233 | 319 | 249 | 331 | 174! | 308 | 187 |
| Nevada | 274 | 272 | 278 | 336 | 280 | 294 | 274 | 347 | 355 | 301 | 349 | 217 |
| New Hampshire | 83! | 175! | 309! | 153! | 413 | 195! | 305! | 184! | 301! | 346! | 197! | 312! |
| New Jersey | 265 | 266 | 241 | 229 | 279 | 208 | 207 | 234 | 256 | 252 | 203 | 173 |
| New Mexico | 194 | 459 | 319 | 240 | 239 | 211 | 251 | 345 | 267 | 229 | 250 | 332 |
| New York | 259 | 221 | 243 | 220 | 212 | 213 | 266 | 235 | 223 | 290 | 289 | 295 |
| North Carolina | 205 | 293 | 214 | 215 | 179 | 211 | 218 | 252 | 244 | 353 | 284 | 336 |
| North Dakota | 276! | 0 | 0 | 71! | 72! | 212! | 63! | 0 | 0 | 244! | 126! | 0 |
| Ohio | 256 | 198 | 236 | 224 | 218 | 248 | 240 | 215 | 264 | 255 | 289 | 299 |
| Oklahoma | 235 | 372 | 328 | 248 | 358 | 324 | 343 | 404 | 392 | 353 | 315 | 415 |
| Oregon | 219 | 229 | 248 | 281 | 291 | 184 | 205 | 214 | 252 | 322 | 171 | 231 |
| Pennsylvania | 324 | 298 | 327 | 293 | 316 | 313 | 314 | 295 | 340 | 354 | 383 | 358 |
| Rhode Island ^d | 89! | 160! | 205! | 222! | 330 | 197! | 126! | 223! | 168! | 69! | 298! | 194! |
| South Carolina | 318 | 350 | 207 | 304 | 246 | 265 | 306 | 315 | 372 | 388 | 541 | 539 |
| South Dakota | 143! | 179! | 118! | 236! | 309 | 250! | 166! | 200! | 198! | 133! | 308 | 156! |
| Tennessee | 292 | 382 | 346 | 369 | 298 | 424 | 395 | 399 | 475 | 474 | 436 | 619 |
| Texas | 275 | 295 | 269 | 234 | 261 | 298 | 282 | 265 | 274 | 266 | 311 | 337 |
| Utah | 121! | 214 | 324 | 239 | 227 | 283 | 427 | 433 | 331 | 466 | 403 | 327 |
| Vermont ^d | 214! | 142! | 135! | 241! | 0 | 98! | 385! | 303! | 229! | 403 ! | 300! | 117! |
| Virginia | 226 | 264 | 281 | 291 | 324 | 289 | 273 | 300 | 296 | 301 | 312 | 358 |
| Washington | 190 | 204 | 255 | 206 | 123 | 195 | 220 | 221 | 244 | 163 | 226 | 207 |
| West Virginia | 500 | 388 | 356 | 394 | 447 | 450 | 456 | 409 | 473 | 441 | 490 | 583 |

Continued on next page

TABLE 13 (continued)

Mortality rate per 100,000 state and federal prisoners, by jurisdiction, 2001 and 2008–2018

| Jurisdiction | 2001 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Wisconsin | 231 | 197 | 189 | 113 | 214 | 205 | 192 | 257 | 201 | 285 | 183 | 221 |
| Wyoming | 336! | 528! | 402! | 96! | 139! | 183! | 175! | 507 | 292! | 468 | 331! | 245! |

Note: Data may have been revised from previously published statistics. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31. Mortality rates are not adjusted for demographic differences among states. See *Methodology*.

! Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates* among small populations, p. 24.

^aExcludes deaths in private federal facilities. Until 2015, federal deaths were submitted as an aggregate count by the Federal Bureau of Prisons (BOP), with limited details regarding cause of death, and excluded deaths in private federal facilities. See appendix table 2 for deaths from 2015 to 2018 in federal prison facilities operated by the BOP or operated privately under a BOP contract.

^bIncludes deaths in private state facilities. Includes nine prisoner deaths reported by the District of Columbia in 2001. As of December 30, 2001, sentenced felons from the District of Columbia were the responsibility of the BOP.

^CPrisons and jails form one integrated system. Counts include deaths only in state-operated prisons and jails and exclude deaths in 15 locally operated jails.

dPrisons and jails form one integrated system. Data include the total jail and prison population.

^eAnnually, Louisiana holds roughly half of its prison population in local jails. Since the calculation of mortality rates is based on the custody populations, which exclude prisoners held in local jails, the mortality rates for Louisiana prisoners will be high because the prisoners held in jails are generally healthier according to the Louisiana Department of Corrections.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001 and 2008–2018, and National Prisoner Statistics, 2001 and 2008–2018; and Federal Bureau of Prisons, 2001 and 2008–2018.

TABLE 14
Number of prisoner deaths in state and federal facilities, by cause of death and jurisdiction, 2001–2018

| | | | | | Illness | | | | | | |
|---------------------------|-------------------------|------------------|------------|------------------|-------------------------------|---------------------|----------------------------------|----------|---------------------------|-----------------------|-----------|
| Jurisdiction | All causes ^a | Heart disease | Cancer | Liver disease | AIDS- related ^b | Respiratory disease | All other illnesses ^c | Suicide | Drug/alcohol intoxication | Accident ^d | Homicidee |
| Federal ^f | 6,744 | | | | 167 | ••• | 5,884 | 313 | | 102 | 182 |
| State ^g | 61,130 | 15,855 | 16,777 | 5,432 | 1,932 | 3,824 | 9,535 | 3,870 | 1,235 | 618 | 1,258 |
| Alabama | 1,601 | 369 | 403 | 136 | 37 | 107 | 287 | 40 | 13 | 17 | 46 |
| Alaska ^h | 176 | 42 | 28 | 17 | 1 | 4 | 24 | 34 | 10 | 9 | 4 |
| Arizona | 1,607 | 380 | 422 | 206 | 34 | 89 | 202 | 116 | 75 | 15 | 54 |
| Arkansas | 900 | 302 | 241 | 64 | 25 | 45 | 92 | 52 | 42 | 14 | 15 |
| California | 6,628 | 1,131 | 1,635 | 647 | 116 | 472 | 1,356 | 558 | 336 | 49 | 282 |
| Colorado | 805 | 155 | 165 | 129 | 1 | 58 | 144 | 73 | 35 | 15 | 29 |
| Connecticut ⁱ | 472 | 115 | 65 | 66 | 11 | 27 | 96 | 75 | 3 | 6 | 7 |
| Delaware ⁱ | 274 | 69 | 63 | 25 | 20 | 14 | 33 | 32 | 6 | 1 | 2 |
| Florida | 5,260 | 1,129 | 1,552 | 407 | 303 | 350 | 931 | 170 | 160 | 63 | 135 |
| Georgia | 2,212 | 735 | 559 | 122 | 82 | 181 | 284 | 122 | 8 | 18 | 75 |
| Hawaii ⁱ | 162 | 30 | 42 | 17 | 4 | 7 | 23 | 28 | 4 | 1 | 5 |
| Idaho | 265 | 69 | 66 | 23 | 4 | 13 | 38 | 35 | 5 | 5 | 4 |
| Illinois | 1,590 | 457 | 503 | 80 | 64 | 88 | 211 | 132 | 14 | 15 | 17 |
| Indiana | 1,165 | 312 | 314 | 102 | 22 | 76 | 170 | 78 | 40 | 17 | 28 |
| lowa | 290 | 64 | 100 | 17 | 5 | 29 | 35 | 31 | 3 | 1 | 2 |
| Kansas | 436 | 120 | 125 | 50 | 2 | 29 | 65 | 27 | 6 | 8 | 3 |
| Kentucky | 887 | 298 | 280 | 64 | 30 | 46 | 130 | 22 | 3 | 4 | 6 |
| Louisiana | 1,806 | 558 | 547 | 140 | 109 | 85 | 231 | 40 | 3 | 20 | 9 |
| Maine | 74 | 23 | 18 | 6 | 1 | 6 | 8 | 4 | 2 | 0 | 5 |
| Maryland | 1,039 | 260 | 218 | 82 | 109 | 43 | 117 | 79 | 62 | 9 | 46 |
| Massachusetts | 622 | 170 | 170 | 62 | 10 | 28 | 90 | 58 | 10 | 9 | 4 |
| Michigan | 2,180 | 654 | 744 | 169 | 39 | 123 | 220 | 131 | 35 | 25 | 22 |
| Minnesota | 235 | 47 | 70 | 32 | 1 | 10 | 43 | 26 | 4 | 1 | 1 |
| Mississippi | 1,001 | 366 | 251 | 47 | 24 | 49 | 136 | 47 | 4 | 14 | 28 |
| Missouri | 1,471 | 406 | 449 | 158 | 26 | 83 | 216 | 70 | 21 | 8 | 24 |
| Montana | 161 | 31 | 44 | 25 | 2 | 10 | 25 | 18 | 3 | 1 | 2 |
| Nebraska | 195 | 44 | 44 | 25 | 4 | 9 | 22 | 18 | 5 | 3 | 6 |
| Nevada | 623 | 151 | 141 | 42 | 9 | 27 | 129 | 39 | 6 | 4 | 11 |
| New Hampshire | 119 | 26 | 46 | 11 | 3 | 4 | 12 | 12 | 5 | 0 | 0 |
| New Jersey | 986 | 314 | 234 | 61 | 83 | 58 | 129 | 52 | 21 | 10 | 12 |
| New Mexico | 318 | 71 | 82 | 57 | 4 | 17 | 38 | 29 | 7 | 1 | 11 |
| New York | 2,599 | 690 | 754 | 200 | 221 | 115 | 233 | 229 | 56 | 34 | 29 |
| North Carolina | 1,605 | 437 | 524 | 130 | 74 | 104 | 210 | 64 | 8 | 24 | 16 |
| North Dakota | 20 | 4 | 5 | 2 | 1 | 0 | 3 | 4 | 1 | 0 | 0 |
| Ohio | 2,175 | 618 | 746 | 119 | 34 | 161 | 303 | 126 | 20 | 8 | 31 |
| Oklahoma | 1,475 | 385 | 371 | 167 | 30 | 85 | 196 | 87 | 39 | 32 | 60 |
| Oregon | 603 | 128 | 184 | 87 | 7 | 29 | 81 | 36 | 13 | 7 | 10 |
| Pennsylvania | 2,730 | 776 | 790 | 240 | 38 | 170 | 500 | 150 | 21 | 14 | 18 |
| Rhode Island ⁱ | 112 | 27 | 21 | 3 | 5 | 5 | 9 | 26 | 5 | 3 | 1 |
| South Carolina | 1,246 | 472 | 267 | 81 | 36 | 52 | 195 | 69 | 11 | 7 | 53 |
| South Dakota | 128 | 30 | 28 | 18 | 1 | 13 | 13 | 17 | 1 | 4 | 3 |
| Tennessee | 1,451 | 441 | 397 | 148 | 43 | 71 | 194 | 67 | 30 | 13 | 33 |
| Texas | 7,602 | 1,896 | 1,899 | 804 | 172 | 595 | 1,542 | 492 | 27 | 76 | 72 |
| Utah | 245 | 59 | 52 | 20 | 0 | 10 | 43 | 39 | 5 | 3 | 8 |
| Vermont ⁱ | 69 | 17 | 13 | 11 | 3 | 1 | 11 | 10 | 3 | 0 | 0 |
| Virginia Washington | 1,586 637 | 423 150 | 543 182 | 153 70 | 54 9 | 82 54 | 207 98 | 60 43 | 19 9 | 10 11 | 14 8 |

Continued on next page

TABLE 14 (continued)

Number of prisoner deaths in state and federal facilities, by cause of death and jurisdiction, 2001–2018

| | | | | | Illness | | | | | | |
|---------------|-------------------------|------------------|--------|------------------|-------------------------------|---------------------|----------------------------------|---------|---------------------------|-----------|-----------------------|
| Jurisdiction | All causes ^a | Heart disease | Cancer | Liver disease | AIDS- related ^b | Respiratory disease | All other illnesses ^c | Suicide | Drug/alcohol intoxication | Accidentd | Homicide ^e |
| West Virginia | 366 | 138 | 98 | 25 | 6 | 17 | 58 | 10 | 3 | 2 | 6 |
| Wisconsin | 808 | 226 | 265 | 50 | 11 | 64 | 85 | 85 | 9 | 6 | 1 |
| Wyoming | 104 | 38 | 17 | 14 | 1 | 8 | 15 | 8 | 2 | 1 | 0 |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2018; and Federal Bureau of Prisons, 2001–2018.

^{...}Not available.

^aIncludes other causes not specified and missing and unknown causes.

blncludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

^CIncludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses. Includes natural and illness-related deaths of federal prisoners for which the Federal Bureau of Prisons (BOP) could not provide details.

dIncludes death by intoxication among federal prisoners.

^eIncludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration. ^fExcludes deaths in private federal facilities.

⁹Includes deaths in private state facilities. Includes nine prisoner deaths reported by the District of Columbia in 2001. As of December 30, 2001, sentenced felons from the District of Columbia were the responsibility of the BOP.

hPrisons and jails form one integrated system. Counts include deaths only in state-operated prisons and jails and exclude deaths in 15 locally operated jails.

ⁱPrisons and jails form one integrated system. Data include the total jail and prison population.

TABLE 15Average annual mortality rate per 100,000 state and federal prisoners, by cause of death and jurisdiction, 2001–2018

| 2001-2018 | | | | | Illness | | | | | | |
|--------------------------------|-------------------------|------------|------------|------------------|-------------------------------|-------------|----------------------------------|-----------|---------------------------|------------|-----------------------|
| Jurisdiction | All causes ^a | Heart | Cancar | Liver disease | AIDS- related ^b | Respiratory | All other illnesses ^c | Suicido | Drug/alcohol intoxication | Accidon+d | Homicide ^e |
| Federal ^f | 232 | | | | 6 | | 202 | 11 | | 4 | |
| State ^g | 269 | 70 | 74 | 24 | 9 | 17 | 42 | 17 | 5 | | 6 |
| | | | | | | | | | | 3 4 | 6 |
| Alabama Alaska ^h | 352 | 81 | 89 | 30 | 8 | 24 | 63 | 9 | 3 | = | 10 |
| | 194 | 46 | 31 | 19 | 1! | 4! | 26 | 37 | 11 | 10! | 4! |
| Arizona | 237 | 56 | 62 | 30 | 5 | 13 | 30 | 17 | 11 | 2 | 8 |
| Arkansas | 363 | 122 | 97 | 26 | 10 | 18 | 37 | 21 | 17 | 6 | 6 |
| California | 244 | 42 | 60 | 24 | 4 | 17 | 50 | 21 | 12 | 2 | 10 |
| Colorado | 217 | 42 | 44 | 35 | 0! | 16 | 39 | 20 | 9 | 4 | 8 |
| Connecticut ⁱ | 151 | 37 | 21 | 21 | 4 | 9 | 31 | 24 | 1! | 2! | 2! |
| Delaware ⁱ | 230 | 58 | 53 | 21 | 17 | 12 | 28 | 27 | 5! | 1! | 2! |
| Florida | 313 | 67 | 92 | 24 | 18 | 21 | 55 | 10 | 10 | 4 | 8 |
| Georgia | 237 | 79 | 60 | 13 | 9 | 19 | 30 | 13 | 1! | 2 | 8 |
| Hawaii ⁱ | 169 | 31 | 44 | 18 | 4! | 7! | 24 | 29 | 4! | 1! | 5! |
| Idaho | 215 | 56 | 53 | 19 | 3! | 11 | 31 | 28 | 4! | 4! | 3! |
| Illinois | 195 | 56 | 62 | 10 | 8 | 11 | 26 | 16 | 2 | 2 | 2 |
| Indiana | 255 | 68 | 69 | 22 | 5 | 17 | 37 | 17 | 9 | 4 | 6 |
| lowa | 183 | 40 | 63 | 11 | 3! | 18 | 22 | 20 | 2! | 1! | 1! |
| Kansas | 264 | 73 | 76 | 30 | 1! | 18 | 39 | 16 | 4! | 5! | 2! |
| Kentucky | 373 | 125 | 118 | 27 | 13 | 19 | 55 | 9 | 1! | 2! | 3! |
| Louisiana ^j | 535 | 165 | 162 | 41 | 32 | 25 | 68 | 12 | 1! | 6 | 3! |
| Maine | 198 | 62 | 48 | 16! | 3! | 16! | 21! | 11! | 5! | 0 | 13! |
| Maryland | 260 | 65 | 55 | 21 | 27 | 11 | 29 | 20 | 16 | 2! | 12 |
| Massachusetts | 336 | 92 | 92 | 34 | 5 | 15 | 49 | 31 | 5 | 5! | 2! |
| Michigan | 265 | 79 | 90 | 21 | 5 | 15 | 27 | 16 | 4 | 3 | 3 |
| Minnesota | 148 | 30 | 44 | 20 | 1! | 6 | 27 | 16 | 3! | 1! | 1! |
| Mississippi | 359 | 131 | 90 | 17 | 9 | 18 | 49 | 17 | 1! | 5 | 10 |
| Missouri | 266 | 73 | 81 | 29 | 5 | 15 | 39 | 13 | 4 | 1! | 4 |
| Montana | 292 | 56 53 | 80 | 45 | 4! | 18 | 45 | 33 | 5! | 2! | 4! |
| Nebraska | 234 | 53 | 53 | 30 | 5! | 11! | 26 | 22 | 6 | 4! | 7! |
| Nevada | 282 | 68 | 64 | 19 | 4! | 12 | 58 | 18 | 3! | 2! | 5 |
| New Hampshire | 255 | 56 | 99 | 24 | 6! | 9! | 26 | 26 | 11! | 0 | 0 |
| New Jersey | 234 | 74 | 55 | 14 | 20 | 14 | 31 | 12 | 5 | 2 | 3 |
| New Mexico | 268 | 60 | 69 72 | 48 | 3! | 14 | 32 | 24 | 6! | 1! | 9 |
| New York | 250 | 66 | 72 79 | 19 | 21 | 11 | 22 | 22 | 5 | 3 | 3 |
| North Carolina | 242 | 66 16 l | | 20 | 11 | 16 | 32 | 10 | 1! | 4 | 2 |
| North Dakota Ohio | 79 245 | 16! 70 | 20 ! 84 | 8! 13 | 4! | 0 18 | 12! 34 | 16! 14 | 4! | 0 1! | 0 |
| Oklahoma | 336 | 70 88 | 85 | 38 | 4 7 | 19 | 34 45 | 20 | 2 9 | 7 | 3 14 |
| Oregon | 248 | oo 53 | 65 76 | 36 | 7 3! | 19 | 33 | 15 | 5 | 7 3! | 4 |
| Pennsylvania | 330 | 94 | 95 | 29 | 5 : | 21 | 60 | 13 | 3 | | |
| Rhode Island ⁱ | 330 192 | 94 46 | 95 36 | 29 5! | 9! | 9! | 15! | 45 | 3 9! | 2 5! | 2 2! |
| South Carolina | 315 | 119 | 68 | | | 13 | 49 | 43 17 | | 2! | 13 |
| South Dakota | 209 | 49 | 46 | 21 29 | 9 2! | 21 | 21 | 28 | 3 2! | 2 ! 7 ! | 5! |
| Tennessee | 408 | | | 42 | 12 | 20 | 55 | 26 19 | | | |
| | 272 | 124 68 | 112 68 | 42 29 | | 20 | 55 55 | | 8 1 | 4 | 9 3 |
| Texas Utah | | | | | 6 | | | 18 | · · | 3 | |
| Utan Vermont ⁱ | 273 205 | 66 50 | 58 39 | 22 33 | 0 9! | 11 3! | 48 33 | 44 30 | 6! 9! | 3! 0 | 9! 0 |
| | 205 286 | | 39 98 | 33 28 | | 3 ! 15 | 33 37 | | | 0 | 0 |
| Virginia Washington | 209 | 76 49 | 98 60 | 28 23 | 10 3! | 15 18 | 37 | 11 14 | 3 3! | 2 4 | 3 3! |
| • | | | | 23 28 | 3! 7! | | | | 3! 3! | | 3! 7! |
| West Virginia | 412 | 156 | 110 | 28 | /! | 19 | 65 | 11 | 5! | 2! | /! |

Continued on next page

TABLE 15 (continued)

Average annual mortality rate per 100,000 state and federal prisoners, by cause of death and jurisdiction, 2001–2018

| | | | | | Iliness | | | | | | |
|--------------|-------------------------|------------------|--------|------------------|-------------------------------|---------------------|----------------------------------|---------|---------------------------|-----------|-----------|
| Jurisdiction | All causes ^a | Heart disease | Cancer | Liver disease | AIDS- related ^b | Respiratory disease | All other illnesses ^c | Suicide | Drug/alcohol intoxication | Accidentd | Homicidee |
| Wisconsin | 200 | 56 | 66 | 12 | 3 | 16 | 21 | 21 | 2! | 1! | 0! |
| Wyoming | 283 | 103 | 46 | 38 | 3! | 22! | 41 | 22! | 5! | 3! | 0 |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). Includes deaths in private state facilities. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31. Mortality rates are not adjusted for demographic differences among states. See *Methodology*.

...Not available.

! Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

^aIncludes other causes not specified and missing and unknown causes.

blincludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

CIncludes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses. Includes natural and illness-related deaths of federal prisoners for which the Federal Bureau of Prisons (BOP) could not provide details.

dIncludes death by intoxication among federal prisoners.

elincludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration. fexcludes deaths in private federal facilities.

9Includes deaths in private state facilities. Includes nine prisoner deaths reported by the District of Columbia in 2001. As of December 30, 2001, sentenced felons from the District of Columbia were the responsibility of the BOP.

hPrisons and jails form one integrated system. Counts include deaths only in state-operated prisons and jails and exclude deaths in 15 locally operated jails.

ⁱPrisons and jails form one integrated system. Data include the total jail and prison population.

jAnnually, Louisiana holds roughly half of its prison population in local jails. Since the calculation of mortality rates is based on the custody populations, which exclude prisoners held in local jails, the mortality rates for Louisiana prisoners will be high because the prisoners held in jails are generally healthier according to the Louisiana Department of Corrections.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2018, and National Prisoner Statistics, 2001–2018; and Federal Bureau of Prisons, 2001–2018.

TABLE 16
Preliminary number and percent of deaths in state prisons, by selected causes of death, 2019

| Cause of death | Number | Percent ^a |
|---------------------------|--------|----------------------|
| All causes | 3,293 | 100% |
| Illness ^b | 2,429 | 73.8 |
| AIDS-related ^c | 13 | 0.4 |
| Suicide | 271 | 8.2 |
| Drug/alcohol intoxication | 204 | 6.2 |
| Accident | 24 | 0.7 |
| Homicide ^d | 106 | 3.2 |
| Other causes | 46 | 1.4 |
| Missing/unknown | 200 | 6.1 |

Note: Represents a 98% response rate. As of July 13, 2020, a total of 49 of the 50 state departments of corrections had reported at least one death to the Mortality in Correctional Institutions. Excludes executions. For execution data, see *Capital Punishment*, 2019: Selected Findings (BJS, Forthcoming).

^aBased on the total number of records reported.

bExcludes AIDS-related deaths.

^CIncludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

^dIncludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2019.

Methodology

Data collection coverage

The Mortality in Correctional Institutions (MCI), formerly the Deaths in Custody Reporting Program (DCRP), is an annual Bureau of Justice Statistics (BJS) data collection. The MCI obtains national-, state-, and incident-level data on persons who died while in the physical custody of the 50 state departments of corrections (DOCs) or of the approximately 2,800 local jail jurisdictions with adult populations nationwide. This methodology pertains to the prison portion of the MCI collection only. See *Mortality in Local Jails*, 2000-2018 – Statistical Tables (NCJ 256002, BJS, April 2021) for the methodology for deaths in local jails.

The DCRP began in 2000 in response to the Death in Custody Reporting Act of 2000 (DICRA; P.L. 106-297) and was the only national statistical collection providing comprehensive information about deaths in adult correctional facilities. Starting in 2001, BJS has annually collected data directly from state prison systems, maintaining a 100% response rate. BJS uses these data to track national trends in the number, cause, and manner of deaths occurring in state prisons. Until 2015, the Federal Bureau of Prisons (BOP) submitted aggregate counts of the number of male and female deaths to BJS, by cause of death. The BOP started reporting decedent-level data to BJS in 2015, including individual demographic and criminal justice characteristics. In 2017, BJS changed the name of the DCRP to MCI to more accurately describe the data collection.

BJS will cease collection of mortality data in state and local correctional facilities after the 2019 reference year. The U.S. Department of Justice (DOJ) determined that it would be more appropriate for the Bureau of Justice Assistance (BJA) to administer the program and collect mortality data for DOJ starting with quarter 1 of fiscal year (FY) 2019 (October to December 2019). State DOCs and local jails will be asked to report their death information on a quarterly basis to centralized state agencies, which will compile and submit the information to BJA to comply with all applicable requirements in P.L. 113-242.

Mortality data collected by the MCI include the location and type of facility where the prisoner died, decedent characteristics (sex, race or ethnicity, and age), admission date, conviction status, and admission offense. The MCI also collects data on

the circumstances surrounding the death (the cause, time, and location of death), whether an autopsy was conducted, and the availability of autopsy results to the respondent. Data on executions are excluded from this report but are accessible on the BJS website.³ Statistics for 2001 to 2018 presented in this report are current as of September 14, 2020.

For more information on mortality in correctional settings, see—

- Assessing Inmate Cause of Death: Deaths in Custody Reporting Program and National Death Index (NCJ 249568, BJS, April 2016)
- Federal Deaths in Custody and During Arrest, 2016-2017 – Statistical Tables (NCJ 252838, BJS, December 2020)
- Mortality in Local Jails, 2000-2018 Statistical Tables (NCJ 256002, BJS April 2021)
- Mortality in Local Jails, 2000-2016 Statistical Tables (NCJ 251921, BJS, February 2020)
- Mortality in State and Federal Prisons, 2001-2016 Statistical Tables (NCJ 251920, BJS, February 2020)
- Suicide and Homicide in State Prisons and Local Jails (NCJ 210036, BJS, August 2005).

The MCI instruments for collecting data from state prisons are administered annually to state DOCs. Respondents provide an aggregate count of the number of deaths (NPS-4) that occurred during the referenced calendar year and provide forms (NPS-4A) describing individual deaths. The prison data collection instruments are available on the BJS website. Respondents can submit individual records on decedents at any time during a collection cycle through a BJS web-based collection system. The BOP submits federal prison data directly to BJS.

Determining eligibility for reporting to the Mortality in Correctional Institutions

In the MCI, custody refers to the physical holding of a person in a facility or to the period during which a correctional authority maintains a chain of custody over a prisoner. For instance, if a prison transports an ill prisoner to a hospital for medical services and that prisoner dies while in the chain of custody of the prison, then that death is counted as a death

³See *Capital Punishment, 2018 – Statistical Tables* (NCJ 254786, BJS, September 2020).

in custody. A death that occurs when a prisoner is not in the custody of a correctional authority is considered beyond the scope of the MCI. Deaths were considered out of scope for prisoners who died while on escape status or under the supervision of community corrections, such as on probation, parole, or home electronic monitoring. For state prisons responding to the survey, prisoners in physical custody include those held in any private prison facility under contract to the responding states' DOCs or in any of their state-operated facilities, such as halfway houses, prison camps or farms, training or treatment centers, and prison hospitals. BOP data submitted to the MCI exclude deaths of federal prisoners that occurred in privately operated facilities.

State and federal prison officials were asked to exclude deaths of prisoners serving sentences in the custody of local jails while under the jurisdiction of the state or federal DOCs. The MCI obtains information about such deaths through the jail data collections.

Identifying and excluding duplicate records

Duplicate and out-of-scope records are excluded from analysis in this report. Duplicate death records may occur in the MCI due to overlapping correctional populations or overlapping duties within correctional facilities. For example, a state prison system may report the death of a prisoner who was transferred to a local jail while serving a prison sentence. This death would be counted by the local jail that had custody of the prisoner at the time of death. The duplicate record from the prison would be deleted.

To identify duplicate records, BJS reconciles the aggregate summary counts of deaths that occurred during a calendar year with the number of individual records of death that were obtained from a reporting prison system. When discrepancies are identified, reporting prison systems are contacted for clarification.

Information on cause of death

MCI respondents are instructed to report on the cause of death as determined by autopsy or another official medical investigation. For this collection, deaths due to intoxication, accidents, suicides, and homicides are considered discrete causes of death. Although the manner and cause of death are distinct from one another, no such distinction is made in the MCI. When reporting a death due to illness, accident, suicide, intoxication, or homicide, BJS requests that respondents describe the events surrounding these deaths. Clinical data specialists convert text entries

that describe illness-related deaths into standard medical codes from the World Health Organization's International Statistical Classification of Diseases and Related Health Problems, Tenth Revision (ICD-10).

Homicides include all types of intentional homicide and involuntary manslaughter as determined by a medical examiner or pathologist at autopsy. Homicide counts include legal intervention homicides committed while the prisoner was trying to escape. Homicides also encompass cases that are ruled a homicide at autopsy when events that led to the death occurred prior to incarceration, such as a prisoner who was shot outside of custody and who later died from complications of the gunshot wound while in custody.

Other BJS sources of correctional mortality data

BJS maintains other data collections on prisoner mortality. These other collections include—

- Capital Punishment, which provides data on legal executions. Additional details on executions are available on the BJS website.
- The National Prisoner Statistics (NPS) program, which collects counts of deaths by cause of death, including deaths due to execution; illness; AIDS and AIDS-related causes, such as HIV; suicide; accident; or homicide. Detailed counts by cause of death were discontinued in 2007. The NPS currently collects a total count of deaths as a type of release from prison. After 2006, the BOP submitted counts of deaths by cause of death to the MCI but discontinued submitting counts to the NPS. Additional details on the NPS are available on the BIS website.

Reported statistics

Mortality data in this report include the number of deaths and mortality rates by year in state and federal prisons, the cause of death, selected decedent characteristics, and the state where the death occurred.

Mortality rates are calculated per 100,000 prisoners, with the denominators providing estimates of the number of person-years of exposure in custody in institutional corrections (*person-years* combines time in jail with the number of inmates to measure actual exposure to a jail setting). The mortality rate for state or federal prisoners is calculated as the number of deaths per year divided by the December 31 population of state or federal prisoners in custody, with the resulting quotient multiplied by 100,000. The population of state prisoners used in rate calculations

includes prisoners held in privately operated facilities, while the population in federal prisons does not. To improve comparability between years, this report includes mortality rates of state prisons that were reestimated for prior years using updated year-end custody populations, including privately operated facilities.

Data on the source of the denominator allow annual mortality rates to be calculated separately by group or characteristic. The National Center for Health Statistics (NCHS) calculates crude mortality rates as the number of events for a period (such as 1 year), divided by the population estimate at the midpoint of the period. For statistics on mortality in the general population, the NCHS uses the midyear population as an approximation of the average population that is exposed to risk of death during any given year.⁴

The crude mortality rates that are reported in the MCI annual statistical tables use a year-end, rather than midyear, population for the denominator. The composition of the general population (sex, race or ethnicity, and age) differs from the population in state and federal prisons, which in turn differs from the population in local jails. For 2018, BJS adjusted the general population in table 5 of this report to reflect the age, sex, and race or ethnicity distribution of state prisons to permit direct comparisons. For details on this adjustment, see *Comparison of state prison mortality rates to the U.S. resident population* in this *Methodology*.

Estimating population characteristics of prisoners to calculate mortality rates by demographic subgroups

Age and sex distributions of the state prison population are estimated using the NPS and National Corrections Reporting Program (NCRP) data collections. Rates for race or ethnicity are also derived from these collections. They have been updated from previous years and will not match previously reported rates. Race or ethnicity reported in the NPS and NCRP come from administrative records of prisoners and may not reflect self-reporting by prisoners. In this report, distributions of race or ethnicity were adjusted based on self-reported data collected from interviews with prisoners through BJS's national prisoner surveys. Previously, distributions of race or ethnicity were derived from BJS's 2004 Survey of Inmates in State and Federal Correctional Facilities. In 2017, BJS

updated estimates of prisoners' race or ethnicity using new data from the 2016 Survey of Prison Inmates (formerly the Survey of Inmates in State and Federal Correctional Facilities). Annual distributions of race or ethnicity were weighted by the number of years from the most recent prisoner survey (2004 or 2016). For complete details on the methodology used to estimate distributions of race or ethnicity, see *Prisoners in 2016* (NCJ 251149, BJS, January 2018).

Comparison of state prison mortality rates to the U.S. resident population

The state prison population differs substantially from the U.S. resident population in terms of age, race or ethnicity, and sex distributions. These differences preclude direct comparisons of mortality rates between state prisoners and the U.S. resident population. To control for these differences and allow for direct comparisons, BJS standardized the U.S. resident population's mortality rates to the age-sex-race/ethnicity (ASR) distribution of state prisoners in 2018.

Data for the U.S. resident population were obtained from the WONDER (Wide-ranging Online Data for Epidemiological Research) Underlying Cause of Death database (https://wonder.cdc.gov/ucd-icd10. html), created by the Centers for Disease Control and Prevention. Since the state prison population holds fewer than 800 persons age 17 or younger, BJS limited the WONDER death data to those residents who had a known age at death and were age 18 or older in 2018. In addition, BJS excluded causes of death that are unlikely to occur in prisons, such as motor vehicle accidents, neglect and abandonment, and injury by firearms or explosives unrelated to law enforcement incidents.

For each cause of death, BJS parsed the WONDER death data to match ASR categories from the MCI and calculated the crude mortality rates for the adult U.S. resident population for each ASR category. Next, the total state prison population was divided into the same ASR categories based on data from the NPS and NCRP, then weighted to the race or ethnicity distribution from BJS's self-reported prisoner surveys as described above. The crude mortality rates for the adult U.S. resident population were then multiplied by the total state prison population by weighted ASR category. This approach allowed BJS to generate a cause-specific expected count of deaths that, when summed, gave the total number of expected deaths in the U.S. resident population due to that cause for 2018, if the demographic distribution of the U.S. population

⁴See Siegel, J. S., & Swanson, D. A. (Eds.). (2004). *The methods and materials of demography* (2nd ed., p. 269). Elsevier Academic Press.

resembled that of the state prison population. To obtain the adjusted mortality rate per 100,000 shown in table 5, BJS divided these cause-specific mortality rates by the total state prison population and multiplied by 100,000.

Rolling averages

Rolling averages were computed to examine trends for certain causes of death in prisons while smoothing short-term fluctuations. Data were divided into 10 overlapping 3-year periods spanning 12 years. The rolling averages in this report describe some changes in cause-specific mortality rates over time, such as whether the overall rise in the mortality rate for cancer was steady or the increase in unnatural deaths was recent. Rolling averages were not computed for all causes of death in custody due to small cell sizes.

Interpreting rates among small populations

MCI data on deaths in state prisons are not subject to sampling error because the data represent a full enumeration of deaths. However, according to Brillinger and NCHS, mortality data from a complete enumeration may be subject to random error because "the number of deaths that actually occurred may be considered as one of a large series of possible results that could have arisen under the same set of

circumstances."^{5,6} The random variation can be large when the number of deaths is small. Therefore, caution is warranted when interpreting statistics that are based on small numbers of deaths.

Continuing to use the NCHS and Brillinger methods, BIS quantified random variation by assuming that the appropriate underlying probability distribution for the number of deaths was a Poisson distribution. This provided a simple and reasonable approach for estimating variances in mortality statistics when the probability of dying is low. Variances were calculated based on the assumption of a Poisson process. From these variances, estimates of relative random error were calculated. These estimates are comparable to the relative standard error because the relative random error is the ratio of random error derived from the Poisson variance to the number of deaths. Following NCHS practice, when the relative random error exceeded 30%, estimated mortality rates were flagged with an "!" symbol to show the instability of the rate. (Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%.)

⁵See Brillinger, D. R. (1986). The natural variability of vital rates and associated statistics. *Biometrics*, *42*(4), 693-734.

⁶See Xu, J., Kochanek, K. D., Murphy, S. L., & Tejada-Vera, B. (2010). *Deaths: Final data for 2007* (National Vital Statistics Reports, Vol. 58, No. 19). National Center for Health Statistics. https://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58_19.pdf

APPENDIX TABLE 1

Custody

Estimated number of state and federal prisoners in custody, by prisoner characteristics, 2001–2018

| | population, | | | | | | | | | | | | |
|----------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Characteristic | 2001–2018 | 2001 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Total | 25,595,000 | 1,322,600 | 1,489,800 | 1,490,600 | 1,487,500 | 1,466,400 | 1,443,500 | 1,444,100 | 1,439,200 | 1,405,800 | 1,382,900 | 1,374,000 | 1,351,900 |
| Federal ^a | 2,906,100 | 137,100 | 165,300 | 171,000 | 173,100 | 176,200 | 176,500 | 173,800 | 169,500 | 160,700 | 154,200 | 154,600 | 151,500 |
| State ^b | 22,688,900 | 1,185,500 | 1,324,500 | 1,319,600 | 1,314,400 | 1,290,200 | 1,267,000 | 1,270,300 | 1,269,700 | 1,245,100 | 1,228,700 | 1,219,400 | 1,200,400 |
| Sex | | | | | | | | | | | | | |
| Male | 21,102,600 | 1,109,400 | 1,230,600 | 1,227,500 | 1,222,900 | 1,201,100 | 1,180,600 | 1,181,500 | 1,179,400 | 1,156,000 | 1,139,900 | 1,130,800 | 1,111,900 |
| Female | 1,586,300 | 76,100 | 93,900 | 92,100 | 91,500 | 89,100 | 86,400 | 88,800 | 90,300 | 89,100 | 88,800 | 88,700 | 88,500 |
| Race/ ethnicity | | | | | | | | | | | | | |
| White ^c | 7,433,600 | 387,900 | 441,100 | 430,400 | 424,700 | 414,600 | 407,800 | 406,100 | 406,300 | 396,100 | 385,400 | 384,000 | 379,000 |
| Black ^c | 8,379,200 | 495,400 | 502,800 | 493,200 | 481,800 | 467,900 | 454,600 | 448,200 | 437,000 | 421,000 | 409,600 | 401,800 | 393,200 |
| Hispanic | 4,709,300 | 232,200 | 272,400 | 277,400 | 278,600 | 270,900 | 260,900 | 262,100 | 261,800 | 258,300 | 266,100 | 266,600 | 263,300 |
| Other ^{c,d} | 2,166,800 | 70,000 | 108,300 | 118,600 | 129,300 | 136,800 | 143,700 | 153,900 | 164,700 | 169,600 | 167,600 | 167,000 | 164,900 |
| Age | | | | | | | | | | | | | |
| 17 or | | | | | | | | | | | | | |
| younger | 33,000 | 2,900 | 2,600 | 2,500 | 2,100 | 1,800 | 1,400 | 1,100 | 1,000 | 900 | 800 | 800 | 600 |
| 18–24 | 3,268,600 | 218,000 | 197,900 | 198,700 | 196,000 | 189,100 | 180,400 | 173,700 | 161,300 | 145,500 | 134,800 | 124,800 | 113,700 |
| 25-34 | 7,494,300 | 401,700 | 439,200 | 437,300 | 434,800 | 424,400 | 413,800 | 415,300 | 417,700 | 407,700 | 400,000 | 395,700 | 385,700 |
| 35–44 | 6,189,100 | 362,000 | 356,600 | 343,700 | 334,200 | 324,100 | 318,200 | 320,500 | 323,700 | 322,500 | 322,600 | 326,100 | 328,200 |
| 45-54 | 3,908,900 | 153,000 | 240,600 | 243,500 | 245,600 | 242,300 | 238,000 | 236,500 | 235,000 | 229,400 | 224,900 | 219,700 | 213,900 |
| 55 or older | 1,795,000 | 47,800 | 87,600 | 93,900 | 101,700 | 108,500 | 115,300 | 123,100 | 131,100 | 139,100 | 145,600 | 152,300 | 158,300 |

Note: Data are rounded to the nearest 100. Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. All populations are based on a custody count as of December 31.

Source: Bureau of Justice Statistics, National Corrections Reporting Program, 2001–2018; National Prisoner Statistics, 2001–2018; Survey of Inmates in State and Federal Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.

^aExcludes prisoners in private federal facilities.

^bIncludes prisoners in private state facilities.

CExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

dIncludes Asians, Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races.

APPENDIX TABLE 2 Deaths of federal prisoners in federally and privately operated prison facilities, by cause of death, 2015–2018

| | 2015 | 2016 | 2017 | 2018 |
|--|------|------|------|------|
| Number of deaths | 464 | 395 | 388 | 383 |
| Illnessa | 407 | 343 | 323 | 292 |
| AIDS-related ^b | 1 | 1 | 6 | 0 |
| Suicide | 21 | 19 | 24 | 29 |
| Accident ^c | 16 | 14 | 8 | 14 |
| Homicide ^d | 16 | 15 | 10 | 12 |
| Other/unknown | 3 | 3 | 17 | 36 |
| Mortality rate per 100,000 federal prisoners | | | | |
| federal prisoners | 237 | 210 | 213 | 214 |
| Illness ^a | 209 | 183 | 181 | 163 |
| AIDS-related ^b | 1! | 1! | 3! | 0 |
| Suicide | 11 | 10 | 13 | 16 |
| Accident ^c | 8 | 7 | 4! | 8 |
| Homicide ^d | 8 | 8 | 5 | 7 |
| Other/unknown | 2! | 2! | 9 | 20 |

Note: Includes deaths in federal prison facilities operated by the Federal Bureau of Prisons (BOP) or operated privately under a BOP contract. Until 2015, federal deaths were submitted as an aggregate count by the BOP, with limited details regarding cause of death, and excluded deaths in private federal facilities. Excludes executions. For execution data, see *Capital Punishment*, 2017: Selected Findings (NCJ 253060, BJS, July 2019). See *Methodology*. Mortality rates are based on the annual number of deaths and a 1-day BOP custody population on December 31.

! Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology* – *Interpreting rates among small populations*, p. 24.

Source: Bureau of Justice Statistics, National Prisoner Statistics, 2015–2018; and Federal Bureau of Prisons, 2015–2018.

^aExcludes AIDS-related deaths.

^bIncludes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

^cIncludes deaths due to drug or alcohol intoxication.

^dIncludes homicides committed by other prisoners, incidental to the use of force by staff, or resulting from injuries sustained prior to incarceration.

APPENDIX TABLE 3Illness mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

| Characteristic | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Total | 225 | 228 | 226 | 226 | 227 | 236 | 238 | 247 | 253 | 262 | 267 |
| Sex | | | | | | | | | | | |
| Male | 231 | 235 | 232 | 233 | 235 | 243 | 246 | 255 | 261 | 272 | 276 |
| Female | 136 | 144 | 137 | 132 | 122 | 132 | 133 | 143 | 142 | 138 | 145 |
| Race/ethnicity | | | | | | | | | | | |
| Whitea | 337 | 353 | 356 | 372 | 381 | 403 | 404 | 425 | 439 | 460 | 466 |
| Black ^a | 213 | 218 | 216 | 215 | 213 | 217 | 225 | 236 | 248 | 259 | 266 |
| Hispanic | 122 | 119 | 115 | 107 | 110 | 116 | 120 | 120 | 115 | 119 | 126 |
| Other ^{a,b} | 49 | 46 | 42 | 35 | 36 | 36 | 39 | 39 | 38 | 35 | 32 |
| Age | | | | | | | | | | | |
| 17 or younger | 27! | 13! | 41! | 47! | 56! | 23! | 29! | 33! | 73! | 79! | 89! |
| 18-24 | 14 | 15 | 15 | 14 | 14 | 15 | 15 | 16 | 14 | 13 | 10 |
| 25-34 | 29 | 26 | 25 | 25 | 24 | 24 | 23 | 24 | 24 | 27 | 27 |
| 35-44 | 110 | 106 | 98 | 94 | 85 | 81 | 75 | 71 | 70 | 69 | 68 |
| 45-54 | 416 | 397 | 382 | 364 | 346 | 338 | 324 | 315 | 298 | 281 | 271 |
| 55 or older | 1,777 | 1,765 | 1,658 | 1,598 | 1,558 | 1,567 | 1,538 | 1,544 | 1,530 | 1,540 | 1,517 |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2006–2008 is shown as 2008). Includes deaths in private state facilities. Mortality rates are per 100,000 inmates held in the custody of state prisons. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

[!] Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

^aExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

bIncludes Asians, Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races. Due to the small number of deaths and prison populations of American Indians and Alaska Natives, Asians, and Native Hawaiians and Other Pacific Islanders, mortality rates for these populations are unstable and not shown. See *Methodology*.

APPENDIX TABLE 4Cancer mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

| Characteristic | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|
| Total | 63 | 67 | 71 | 75 | 77 | 81 | 82 | 86 | 88 | 91 | 93 |
| Sex | | | | | | | | | | | |
| Male | 65 | 70 | 73 | 77 | 79 | 84 | 85 | 88 | 91 | 94 | 96 |
| Female | 33 | 35 | 40 | 48 | 44 | 45 | 43 | 51 | 53 | 49 | 49 |
| Race/ethnicity | | | | | | | | | | | |
| White ^a | 103 | 114 | 119 | 130 | 134 | 145 | 144 | 149 | 154 | 162 | 166 |
| Black ^a | 58 | 62 | 66 | 68 | 71 | 75 | 79 | 84 | 89 | 89 | 91 |
| Hispanic | 24 | 23 | 28 | 30 | 31 | 32 | 34 | 36 | 38 | 40 | 41 |
| Other ^{a,b} | 15 | 13 | 15 | 11 | 12 | 11 | 11 | 11 | 11 | 10 | 9 |
| Age | | | | | | | | | | | |
| 17 or younger | 14! | 13! | 14! | 16! | 19! | 23! | 0 | 0 | 37! | 79! | 89! |
| 18–24 | 1! | 2 | 3 | 4 | 4 | 3 | 2 | 2 | 2! | 2! | 2! |
| 25-34 | 4 | 4 | 4 | 5 | 5 | 6 | 5 | 6 | 6 | 6 | 5 |
| 35-44 | 22 | 20 | 22 | 21 | 21 | 22 | 22 | 21 | 19 | 17 | 16 |
| 45-54 | 113 | 115 | 117 | 118 | 113 | 116 | 114 | 113 | 104 | 99 | 95 |
| 55 or older | 577 | 592 | 584 | 584 | 573 | 572 | 553 | 550 | 558 | 558 | 554 |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2006–2008 is shown as 2008). Includes deaths in private state facilities. Mortality rates are per 100,000 inmates held in the custody of state prisons. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

[!] Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

^aExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

bIncludes Asians, Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races. Due to the small number of deaths and prison populations of American Indians and Alaska Natives, Asians, and Native Hawaiians and Other Pacific Islanders, mortality rates for these populations are unstable and not shown. See *Methodology*.

APPENDIX TABLE 5Heart disease mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

| Characteristic | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|
| Total | 64 | 64 | 64 | 65 | 64 | 67 | 68 | 73 | 78 | 84 | 87 |
| Sex | | | | | | | | | | | |
| Male | 67 | 66 | 66 | 67 | 67 | 69 | 71 | 76 | 81 | 88 | 91 |
| Female | 33 | 37 | 30 | 30 | 27 | 31 | 31 | 35 | 37 | 39 | 37 |
| Race/ethnicity | | | | | | | | | | | |
| White ^a | 99 | 99 | 101 | 107 | 107 | 114 | 117 | 127 | 136 | 147 | 151 |
| Black ^a | 62 | 63 | 64 | 65 | 66 | 67 | 69 | 76 | 82 | 92 | 95 |
| Hispanic | 30 | 29 | 28 | 25 | 23 | 24 | 24 | 26 | 25 | 27 | 31 |
| Other ^{a,b} | 12 | 12 | 10 | 8 | 9 | 11 | 13 | 12 | 11 | 9 | 10 |
| Age | | | | | | | | | | | |
| 17 or younger | 0 | 0 | 14! | 16! | 19! | 0 | 29! | 33! | 37! | 0 | 0 |
| 18-24 | 4 | 4 | 4 | 4 | 3 | 5 | 5 | 7 | 5 | 4 | 5 |
| 25-34 | 8 | 8 | 8 | 8 | 7 | 7 | 8 | 9 | 10 | 10 | 11 |
| 35-44 | 31 | 31 | 32 | 33 | 30 | 28 | 25 | 24 | 24 | 26 | 26 |
| 45-54 | 106 | 98 | 94 | 90 | 86 | 82 | 80 | 81 | 83 | 85 | 85 |
| 55 or older | 550 | 526 | 488 | 468 | 448 | 455 | 450 | 467 | 472 | 490 | 484 |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2006–2008 is shown as 2008). Includes deaths in private state facilities. Mortality rates are per 100,000 inmates held in the custody of state prisons. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

[!] Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

^aExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

bIncludes Asians, Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races. Due to the small number of deaths and prison populations of American Indians and Alaska Natives, Asians, and Native Hawaiians and Other Pacific Islanders, mortality rates for these populations are unstable and not shown. See *Methodology*.

APPENDIX TABLE 6Liver disease mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

| Characteristic | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|
| Total | 24 | 25 | 24 | 25 | 24 | 26 | 26 | 26 | 24 | 22 | 20 |
| Sex | | | | | | | | | | | |
| Male | 25 | 26 | 25 | 26 | 25 | 27 | 27 | 27 | 24 | 23 | 21 |
| Female | 10 | 10 | 10 | 9 | 9 | 13 | 14 | 16 | 13 | 11 | 11 |
| Race/ethnicity | | | | | | | | | | | |
| Whitea | 37 | 40 | 42 | 44 | 44 | 47 | 46 | 46 | 45 | 41 | 38 |
| Black ^a | 14 | 15 | 14 | 16 | 14 | 16 | 15 | 15 | 14 | 14 | 12 |
| Hispanic | 25 | 24 | 21 | 19 | 20 | 23 | 25 | 25 | 20 | 16 | 15 |
| Other ^{a,b} | 8 | 8 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 4 |
| Age | | | | | | | | | | | |
| 17 or younger | 0 | 0 | 14! | 16! | 19! | 0 | 0 | 0 | 0 | 0 | 0 |
| 18-24 | 1! | 1! | 1! | 1! | 0! | 0! | 1! | 1! | 1! | 1! | 1! |
| 25-34 | 1 | 1 | 1 | 1 | 1 | 1! | 1 | 1 | 1 | 1! | 1! |
| 35-44 | 11 | 11 | 9 | 10 | 7 | 7 | 5 | 5 | 5 | 5 | 5 |
| 45-54 | 69 | 67 | 63 | 59 | 54 | 54 | 50 | 47 | 41 | 33 | 26 |
| 55 or older | 136 | 137 | 130 | 138 | 140 | 157 | 152 | 147 | 127 | 119 | 107 |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2006–2008 is shown as 2008). Includes deaths in private state facilities. Mortality rates are per 100,000 inmates held in the custody of state prisons. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

[!] Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

^aExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

bIncludes Asians, Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races. Due to the small number of deaths and prison populations of American Indians and Alaska Natives, Asians, and Native Hawaiians and Other Pacific Islanders, mortality rates for these populations are unstable and not shown. See *Methodology*.

APPENDIX TABLE 7Respiratory disease mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

| Characteristic | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|
| Total | 17 | 16 | 17 | 16 | 16 | 16 | 17 | 18 | 19 | 19 | 21 |
| Sex | | | | | | | | | | | |
| Male | 17 | 17 | 17 | 16 | 17 | 17 | 18 | 18 | 19 | 20 | 21 |
| Female | 16 | 14 | 12 | 10 | 7 | 10 | 9 | 10 | 11 | 12 | 16 |
| Race/ethnicity | | | | | | | | | | | |
| Whitea | 28 | 28 | 28 | 29 | 31 | 32 | 32 | 34 | 35 | 37 | 40 |
| Black ^a | 14 | 14 | 14 | 12 | 13 | 12 | 14 | 15 | 16 | 16 | 18 |
| Hispanic | 8 | 8 | 9 | 7 | 7 | 7 | 8 | 7 | 8 | 9 | 10 |
| Other ^{a,b} | 1! | 1! | 1! | 1! | 2! | 3 | 3 | 3 | 3 | 2 | 2! |
| Age | | | | | | | | | | | |
| 17 or younger | 14! | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18–24 | 3 | 2 | 2 | 1! | 2! | 2 | 2! | 2! | 1! | 1! | 0 |
| 25-34 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 2 |
| 35-44 | 8 | 8 | 7 | 6 | 5 | 4 | 4 | 4 | 4 | 5 | 6 |
| 45-54 | 23 | 21 | 20 | 20 | 19 | 17 | 16 | 15 | 16 | 14 | 15 |
| 55 or older | 143 | 139 | 136 | 121 | 127 | 119 | 123 | 124 | 124 | 127 | 129 |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2006–2008 is shown as 2008). Includes deaths in private state facilities. Mortality rates are per 100,000 inmates held in the custody of state prisons. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

[!] Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

^aExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

bIncludes Asians, Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races. Due to the small number of deaths and prison populations of American Indians and Alaska Natives, Asians, and Native Hawaiians and Other Pacific Islanders, mortality rates for these populations are unstable and not shown. See *Methodology*.

APPENDIX TABLE 8

Mortality rate due to all other illnesses per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

| Characteristic | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|
| Total | 48 | 48 | 43 | 41 | 40 | 40 | 40 | 40 | 41 | 43 | 44 |
| Sex | | | | | | | | | | | |
| Male | 49 | 49 | 44 | 41 | 41 | 41 | 40 | 41 | 42 | 44 | 45 |
| Female | 36 | 39 | 39 | 32 | 31 | 30 | 32 | 29 | 26 | 25 | 30 |
| Race/ethnicity | | | | | | | | | | | |
| White ^a | 65 | 66 | 61 | 59 | 60 | 61 | 61 | 64 | 66 | 69 | 68 |
| Black ^a | 48 | 50 | 45 | 43 | 41 | 39 | 40 | 39 | 41 | 43 | 46 |
| Hispanic | 32 | 30 | 27 | 23 | 26 | 27 | 28 | 25 | 24 | 25 | 28 |
| Other ^{a,b} | 12 | 11 | 10 | 9 | 7 | 6 | 6 | 6 | 8 | 8 | 8 |
| Age | | | | | | | | | | | |
| 17 or younger | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18–24 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 3 | 3 |
| 25-34 | 9 | 9 | 7 | 7 | 6 | 6 | 5 | 5 | 5 | 7 | 7 |
| 35-44 | 28 | 27 | 21 | 18 | 17 | 16 | 14 | 14 | 14 | 14 | 14 |
| 45-54 | 84 | 78 | 72 | 65 | 64 | 58 | 55 | 50 | 47 | 45 | 46 |
| 55 or older | 350 | 351 | 302 | 273 | 255 | 250 | 244 | 244 | 238 | 236 | 233 |

Note: Excludes cancer; heart, liver, and respiratory diseases; and AIDS-related illnesses. Based on 3-year rolling averages. Labels show the most recent year only (for example, 2006–2008 is shown as 2008). Includes deaths in private state facilities. Mortality rates are per 100,000 inmates held in the custody of state prisons. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

^aExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

blincludes Asians, Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races. Due to the small number of deaths and prison populations of American Indians and Alaska Natives, Asians, and Native Hawaiians and Other Pacific Islanders, mortality rates for these populations are unstable and not shown. See *Methodology*.

APPENDIX TABLE 9Rate of unnatural deaths per 100,000 state prisoners within each demographic group, by decedent characteristics, 2006–2018 (3-year rolling averages)

| Characteristic | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|
| Total | 26 | 25 | 26 | 27 | 28 | 29 | 31 | 32 | 36 | 42 | 50 |
| Sex | | | | | | | | | | | |
| Male | 27 | 26 | 26 | 27 | 29 | 29 | 31 | 33 | 37 | 43 | 53 |
| Female | 15 | 15 | 16 | 18 | 18 | 17 | 20 | 22 | 23 | 19 | 22 |
| Race/ethnicity | | | | | | | | | | | |
| Whitea | 43 | 44 | 44 | 47 | 49 | 50 | 53 | 57 | 63 | 70 | 82 |
| Black ^a | 15 | 15 | 16 | 16 | 18 | 18 | 20 | 22 | 26 | 34 | 44 |
| Hispanic | 21 | 19 | 20 | 20 | 21 | 23 | 25 | 25 | 26 | 30 | 38 |
| Other ^{a,b} | 13 | 10 | 11 | 11 | 11 | 10 | 10 | 11 | 12 | 12 | 13 |
| Age | | | | | | | | | | | |
| 17 or younger | 41! | 40! | 41! | 31! | 38! | 23! | 29! | 33! | 37! | 0 | 0 |
| 18–24 | 18 | 19 | 19 | 18 | 19 | 19 | 22 | 24 | 30 | 36 | 41 |
| 25-34 | 23 | 22 | 23 | 23 | 23 | 24 | 26 | 29 | 30 | 35 | 44 |
| 35-44 | 27 | 26 | 27 | 29 | 30 | 31 | 30 | 33 | 38 | 45 | 51 |
| 45-54 | 30 | 30 | 30 | 32 | 33 | 32 | 35 | 36 | 39 | 43 | 56 |
| 55 or older | 40 | 36 | 38 | 39 | 46 | 46 | 51 | 46 | 48 | 55 | 65 |

Note: Unnatural deaths include deaths caused by suicide, accident, homicide, or drug or alcohol intoxication. Based on 3-year rolling averages. Labels show the most recent year only (for example, 2006–2008 is shown as 2008). Includes deaths in private state facilities. Mortality rates are per 100,000 inmates held in the custody of state prisons. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

! Interpret with caution. Estimate is based on 10 or fewer cases, or coefficient of variation is greater than 50%. See *Methodology – Interpreting rates among small populations*, p. 24.

^aExcludes persons of Hispanic origin (e.g., "white" refers to non-Hispanic whites and "black" refers to non-Hispanic blacks).

blincludes Asians, Native Hawaiians or Other Pacific Islanders, American Indians or Alaska Natives, and persons of two or more races. Due to the small number of deaths and prison populations of American Indians and Alaska Natives, Asians, and Native Hawaiians and Other Pacific Islanders, mortality rates for these populations are unstable and not shown. See *Methodology*.



The Bureau of Justice Statistics of the U.S. Department of Justice is the principal federal agency responsible for measuring crime, criminal victimization, criminal offenders, victims of crime, correlates of crime, and the operation of criminal and civil justice systems at the federal, state, tribal, and local levels. BJS collects, analyzes, and disseminates reliable statistics on crime and justice systems in the United States, supports improvements to state and local criminal justice information systems, and participates with national and international organizations to develop and recommend national standards for justice statistics. Doris J. James is the acting director.

This report was written by E. Ann Carson. Stephanie Mueller and Zhen Zeng verified the report.

Edrienne Su edited the report. Carrie Epps-Carey produced the report.

April 2021, NCJ 255970



Office of Justice Programs

Building Solutions • Supporting Communities • Advancing Justice

www.ojp.gov