



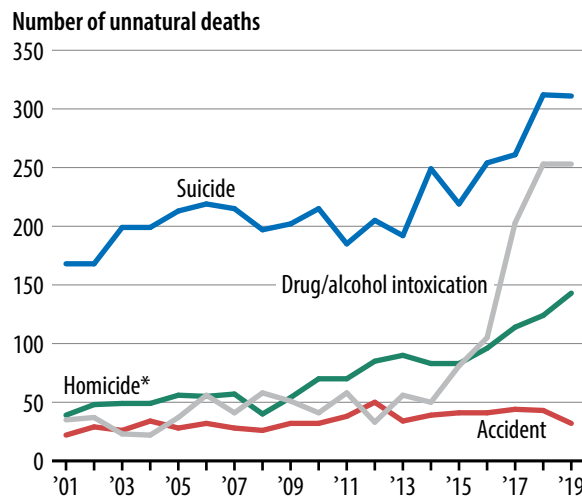
# Mortality in State and Federal Prisons, 2001–2019 – Statistical Tables

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A total of 4,234 persons died in state and federal prisons in 2019, a 6.6% decrease from the 4,515 deaths in 2018 reported to the Bureau of Justice Statistics' (BJS) Mortality in Correctional Institutions (MCI, formerly the Deaths in Custody Reporting Program) data collection. In 2019, the mortality rate in state prisons was 330 per 100,000 state prisoners, while federal prisoners in facilities operated by the Federal Bureau of Prisons (BOP) died at a rate of 259 per 100,000.

The 143 homicides in state prisons in 2019 marked the highest number ever recorded in the MCI's 19-year history and nearly four times the 39 homicides reported in 2001 (figure 1). Other types of unnatural deaths (due to suicide, drug or alcohol intoxication, or accident) also increased during that period. Illness continued to be the leading cause of death for state prisoners, accounting for 79% of all state prison deaths in 2019, down from almost 90% in 2000. State prisoners were less likely to die in 2019 (308 per 100,000) than U.S. residents age 18 or

**FIGURE 1**  
Number of unnatural deaths of state prisoners, by cause of death, 2001–2019



Note: See table 2 for counts.

\*Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2019.

## Highlights

- In 2019, a total of 3,853 prisoners died in state prisons or private prison facilities under a state contract, a decrease of 284 deaths from 2018.
- The number of federal prisoners who died in the custody of a facility operated by the Federal Bureau of Prisons (BOP) increased from 378 in 2018 to 381 in 2019.
- The mortality rate was higher in state prisons (330 per 100,000 state prisoners) in 2019 than in BOP-operated facilities (259 per 100,000 federal prisoners).
- Almost 87% of the 65,027 state prisoners and 89% of the 7,125 federal prisoners who died in custody from 2001 to 2019 died of illness.
- The number of deaths in state prisons due to drug or alcohol intoxication increased from 35 in 2001 to 253 in 2019.
- In 2019, adult U.S. residents were more than twice as likely as state prisoners to die from alcohol or drug intoxication, while state prisoners were almost three times as likely as U.S. residents to die by homicide.

older (435 per 100,000) when adjusting for population differences in sex, race or ethnicity, and age.<sup>1</sup>

In both 2018 and 2019, more than 90% of prisoner deaths occurred in state prison facilities. Deaths from all causes decreased in state prisons from 2018 to 2019, with the exception of deaths due to drug or alcohol intoxication and homicides. Deaths in prisons operated by the BOP increased from 378 in 2018 to 381 in 2019.<sup>2</sup>

This report describes deaths in state and federal prisons from 2001 to 2019, including cause of death, decedent characteristics, and the mortality rate of prisoners by state. This is the final report on deaths in state and federal prisons from BJS's MCI data collection. When the Deaths in Custody Reporting Act was reauthorized in 2014 (P.L. 113–242), it included additional enforcement and reporting compliance requirements that are incompatible with BJS's authorizing statute as a federal statistical agency. The U.S. Department of Justice (DOJ) determined it would be more appropriate for the Bureau of Justice Assistance to administer the program and collect mortality data for the DOJ starting with the first quarter of fiscal year 2019 (October to December 2019).

Data on mortality in local jails are available in *Mortality in Local Jails, 2000–2019 – Statistical Tables* (NCJ 301368, BJS, December 2021).

### Total prison deaths, 2001–2019

- A total of 65,027 state prisoners and 7,125 federal prisoners died while in custody during 2001–19 (**table 1**).
- During 2001–19, cancer and heart disease accounted for more than 53% of all state prison deaths.
- There were 4,183 deaths by suicide in state prisons and 342 in federal prison facilities operated by the BOP during 2001–19.

<sup>1</sup>The state prison population differed significantly from the adult U.S. resident population in terms of sex, race or ethnicity, and age. To allow for direct comparisons between the two populations, BJS adjusted the U.S. resident population to resemble the sex, race or ethnicity, and age distribution of state prisoners before calculating overall and cause-specific mortality rates. See *Methodology*.

<sup>2</sup>BJS 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 include only deaths in BOP-operated facilities. Nine federal prisoners died in private facilities in 2015, seven in 2016, seven in 2017, five in 2018, and nine in 2019.

### Cause of deaths in state prison

- The number of deaths by suicide in state prisons in 2019 (311) was virtually unchanged from 2018 (312), as was the number of drug or alcohol intoxication deaths (253 in both years) (**table 1**).
- From 2001 to 2019, the number of deaths by drug or alcohol intoxication grew 623% and homicides increased 267%, compared to an increase of 34% for the total number of deaths during this period.
- State prisoner deaths due to illness decreased by 238 (7%) from 2018 to 2019.
- State prisoner deaths caused by AIDS-related illnesses declined from 275 in 2001 to 17 in 2019.
- The portion of state prisoners who died from AIDS-related illnesses declined from 9.6% of all deaths in 2001 to 0.4% in 2019, while the portion who died of liver disease decreased from 10.7% to 3.7% (**table 3**).
- In 2019, the shares of state prisoners who died from drug or alcohol intoxication (6.6%), homicide (3.7%), and suicide (8.1%) reached their highest levels since the MCI began collecting data on deaths in state prisons.

### State prison mortality rates in 2019

- More than 91% of deaths in prisons in 2019 occurred in facilities operated by states or in private prison facilities contracted to state departments of corrections (DOCs), while almost 9% occurred in federally operated prison facilities.
- The mortality rate of state prisoners reached a high of 347 per 100,000 state prisoners in 2018, then dropped to 330 per 100,000 in 2019 (**table 4; figure 2**).
- In 2019, for every 100,000 prisoners in the custody of state- and privately operated prison facilities, 261 died from illness and 46 died from suicide.
- The mortality rate due to homicide among state prisoners increased from 10 per 100,000 in 2018 to 12 per 100,000 in 2019.

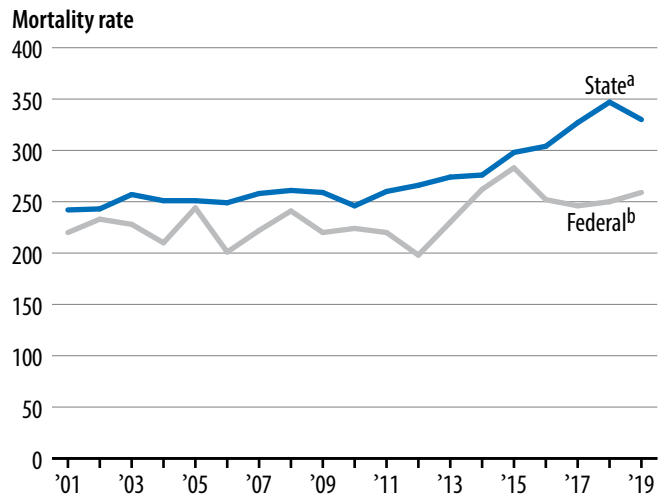
## Comparing mortality in state prisons and the U.S. population

- Adult U.S. residents in 2019 (adjusted for sex, race or ethnicity, and age) died at higher rates than state prisoners from all causes of death except suicide, homicide, and cancer (**table 5; figures 3 and 4**).
- In 2019, adult U.S. residents had an overall adjusted mortality rate of 435 per 100,000, which was 1.4 times the rate for state prisoners.
- The U.S. resident population died of drug or alcohol intoxication at a rate (43 per 100,000) more than twice that of state prisoners (21 per 100,000) in 2019.

## Demographic characteristics of state prison decedents

- As in previous years, about 95% of state prisoners who died in 2019 were male and more than 50% were non-Hispanic white (**tables 6 and 7**).
- The number of female state prisoners who died in 2019 (146) decreased almost 19% from 2018 (180).
- Forty-four non-Hispanic American Indian or Alaska Native state prisoners died in the custody of state DOCs in 2019, down from a high of 52 in 2015.
- Persons age 55 or older accounted for almost twice as many deaths in state prisons in 2019 (63%) as in 2001 (34%).
- The mortality rate of male state prisoners increased more than 36% from 2001 (250 per 100,000 male state prisoners) to 2019 (341 per 100,000), while their total population decreased roughly 3% during the same period (**table 8; appendix table 1**).
- Mortality rates increased for all racial and ethnic groups between 2009 and 2019 (**figure 5**).
- Of the 22 state prison decedents age 17 or younger who died from 2001 to 2019, 50% died by suicide (**table 9**).
- During 2001–19, the rate of deaths due to drug or alcohol intoxication among male state prisoners (7 per 100,000) was more than twice the rate among female state prisoners (3 per 100,000) (**table 10**).

**FIGURE 2**  
Mortality rate per 100,000 state and federal prisoners, 2001–2019



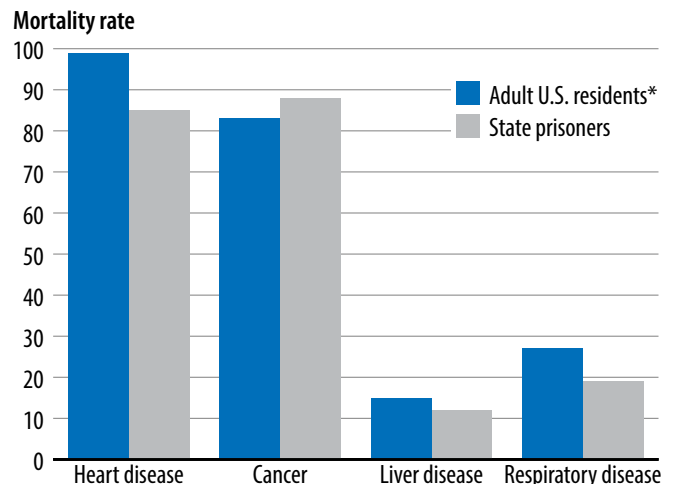
Note: Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31. See tables 4 and 11 for rates.

<sup>a</sup>Includes deaths in private state facilities.

<sup>b</sup>Excludes deaths in private federal facilities.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2019, and National Prisoner Statistics, 2001–2019; and Federal Bureau of Prisons, 2001–2019.

**FIGURE 3**  
Adjusted illness mortality rate per 100,000 U.S. residents, by cause of death, 2019



Note: Excludes persons younger than age 18 and federal prisoners. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31. See table 5 for crude and adjusted rates.

\*Population adjusted to resemble the sex, race or ethnicity, and age distribution of the state prison population.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2019, National Prisoner Statistics, 2019, 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 2019 (released in 2020).

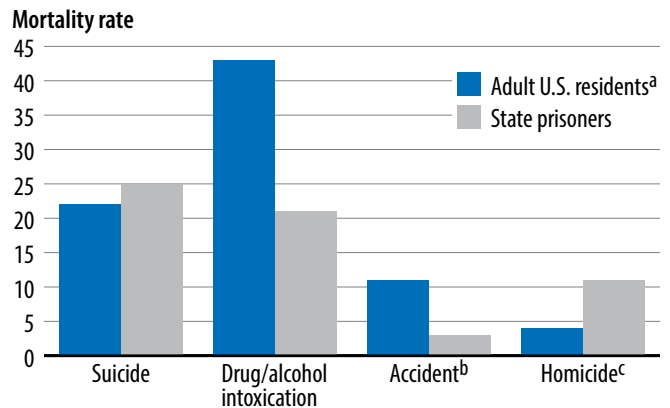
## Deaths in federal prisons

- Federal prisons reported 381 deaths in 2019, a 16% decrease from 2015 (455), the year with the highest number of deaths of federal prisoners.
- In 2019, federal prisoners had an overall mortality rate of 259 per 100,000, up from 250 per 100,000 in 2018 (table 11).
- Federal prisoners in BOP-operated facilities died of suicide at a rate of 20 per 100,000 in 2019.
- In addition to the 381 federal prisoners who died in BOP-operated facilities in 2019, nine died in private prison facilities operating under a BOP contract (table 12).
- Illness accounted for almost 81% of deaths in BOP- and privately operated federal prison facilities in 2019.
- The mortality rate for non-Hispanic whites in BOP- and privately operated federal prisons in 2019 (561 per 100,000) was more than three times the rate for non-Hispanic black federal prisoners (161 per 100,000) and six times the rate for Hispanic prisoners (91 per 100,000) (table 13).
- From 2015 to 2019, fewer than 10 prisoners age 24 or younger held in BOP- and privately operated federal prisons died in any given year.

## Jurisdiction-level prison mortality

- In 2019, the states with the three largest prison systems had a combined 1,246 deaths: Texas (448 deaths), Florida (400), and California (398) (table 14). These states had 148 fewer deaths in 2019 than in 2018, an 11% decrease.
- Eight states had fewer than 10 prisoner deaths in 2019.
- Five states had prison mortality rates in 2019 of at least 500 per 100,000 state prisoners: Louisiana, Alabama, Mississippi, Tennessee, and Kentucky (table 15).
- Three states had fewer than 100 prison deaths during 2001–19: North Dakota (21), Vermont (74), and Maine (82) (table 16).
- During 2001–19, the highest stable average annual rate of drug or alcohol intoxication deaths occurred in prisons in Arkansas (20 per 100,000) and Maryland (16 per 100,000), compared to 1 per 100,000 in Georgia and Texas (table 17).

**FIGURE 4**  
Adjusted rate of unnatural deaths per 100,000 U.S. residents, by cause of death, 2019



Note: Excludes persons younger than age 18 and federal prisoners. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31. See table 5 for crude and adjusted rates.

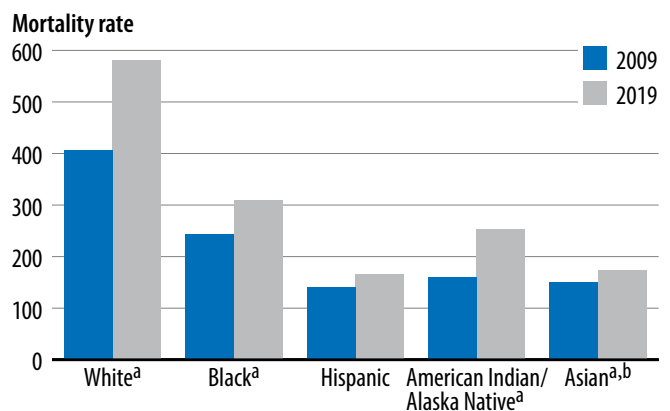
<sup>a</sup>Population adjusted to resemble the sex, race or ethnicity, and age distribution of the state prison population.

<sup>b</sup>Excludes causes of death that are unlikely to occur in a state prison setting from the mortality rates of both state prisoners and U.S. residents.

<sup>c</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2019, National Prisoner Statistics, 2019, 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 2019 (released in 2020).

**FIGURE 5**  
Mortality rate per 100,000 state prisoners, by race or ethnicity, 2009 and 2019



Note: Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31. See table 8 for rates.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2019; National Prisoner Statistics, 2001–2019; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.

- The highest average annual rate of homicide in state prisons during 2001–19 was in South Carolina (15 per 100,000) and Oklahoma (14 per 100,000), while New Hampshire, North Dakota, Vermont, and Wyoming had no homicides during this period, for a mortality rate of 0.

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**TABLE 1**  
**Deaths of state and federal prisoners, by cause of death, 2001–19**

| Cause of death                   | State prisoners <sup>a</sup> |                   |                            | Federal prisoners <sup>b</sup> |                   |                            |
|----------------------------------|------------------------------|-------------------|----------------------------|--------------------------------|-------------------|----------------------------|
|                                  | Number of deaths             | Percent of deaths | Mortality rate per 100,000 | Number of deaths               | Percent of deaths | Mortality rate per 100,000 |
| <b>All causes</b>                | 65,027                       | 100%              | 273                        | 7,125                          | 100%              | 233                        |
| <b>Illness</b>                   | 56,454                       | 86.8%             | 237                        | 6,359                          | 89.2%             | 208                        |
| Heart disease                    | 16,911                       | 26.0              | 71                         | ...                            | ...               | ...                        |
| Cancer                           | 17,866                       | 27.5              | 75                         | ...                            | ...               | ...                        |
| Liver disease                    | 5,543                        | 8.5               | 23                         | ...                            | ...               | ...                        |
| AIDS-related <sup>c</sup>        | 1,949                        | 3.0               | 8                          | 167                            | 2.3               | 5                          |
| Respiratory disease              | 4,095                        | 6.3               | 17                         | ...                            | ...               | ...                        |
| All other illnesses <sup>d</sup> | 10,090                       | 15.5              | 42                         | ...                            | ...               | ...                        |
| <b>Suicide</b>                   | 4,183                        | 6.4%              | 18                         | 342                            | 4.8%              | 11                         |
| <b>Drug/alcohol intoxication</b> | 1,493                        | 2.3%              | 6                          | ...                            | ...               | ...                        |
| <b>Accident<sup>e</sup></b>      | 651                          | 1.0%              | 3                          | 118                            | 1.7%              | 4                          |
| <b>Homicide<sup>f</sup></b>      | 1,405                        | 2.2%              | 6                          | 193                            | 2.7%              | 6                          |
| <b>Other causes</b>              | 445                          | 0.7%              | 2                          | 0                              | 0%                | 0                          |
| <b>Missing/unknown</b>           | 396                          | 0.6%              | 2                          | 113                            | 1.6%              | 4                          |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to rounding. Mortality rates are per 100,000 prisoners held in the custody of state prisons or the Federal Bureau of Prisons. Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*.

...Not available

<sup>a</sup>Includes deaths in private state facilities.

<sup>b</sup>Data on cause of death for federal prisoners were not available for all causes. Excludes deaths in private federal facilities.

<sup>c</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>d</sup>Includes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

<sup>e</sup>Includes death by intoxication among federal prisoners.

<sup>f</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–19*; and Federal Bureau of Prisons, 2001–19.



**TABLE 2**  
**Number of deaths of state and federal prisoners, by cause of death, 2001–2019**

| Cause of death                   | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>                     | 3,170 | 3,270 | 3,498 | 3,456 | 3,556 | 3,561 | 3,757 | 3,851 | 3,793 | 3,620 | 3,738 | 3,707 | 3,878 | 3,928 | 4,163 | 4,122 | 4,335 | 4,515 | 4,234 |
| <b>Federal<sup>a</sup></b>       | 301   | 335   | 346   | 333   | 388   | 328   | 368   | 399   | 376   | 387   | 387   | 350   | 400   | 444   | 455   | 388   | 381   | 378   | 381   |
| <b>State<sup>b</sup></b>         | 2,869 | 2,935 | 3,152 | 3,123 | 3,168 | 3,233 | 3,389 | 3,452 | 3,417 | 3,233 | 3,351 | 3,357 | 3,478 | 3,484 | 3,708 | 3,734 | 3,954 | 4,137 | 3,853 |
| <b>Illness</b>                   | 2,567 | 2,616 | 2,830 | 2,783 | 2,817 | 2,830 | 2,980 | 3,036 | 3,027 | 2,865 | 2,979 | 2,959 | 3,081 | 3,032 | 3,251 | 3,202 | 3,273 | 3,282 | 3,044 |
| Heart disease                    | 743   | 803   | 801   | 842   | 835   | 854   | 840   | 845   | 850   | 830   | 854   | 804   | 897   | 896   | 994   | 1,029 | 1,101 | 1,055 | 1,038 |
| Cancer                           | 691   | 681   | 811   | 733   | 805   | 806   | 772   | 907   | 978   | 927   | 1,028 | 1,024 | 1,065 | 1,050 | 1,125 | 1,130 | 1,112 | 1,139 | 1,082 |
| Liver disease                    | 307   | 296   | 306   | 283   | 318   | 303   | 316   | 318   | 332   | 288   | 339   | 304   | 355   | 313   | 304   | 261   | 245   | 214   | 141   |
| AIDS-related <sup>c</sup>        | 275   | 241   | 209   | 147   | 156   | 132   | 120   | 99    | 98    | 73    | 57    | 74    | 52    | 64    | 45    | 31    | 37    | 22    | 17    |
| Respiratory disease              | 147   | 163   | 200   | 199   | 213   | 196   | 207   | 251   | 200   | 212   | 205   | 223   | 198   | 238   | 243   | 222   | 253   | 290   | 235   |
| All other illnesses <sup>d</sup> | 404   | 432   | 503   | 579   | 490   | 539   | 725   | 616   | 569   | 535   | 496   | 530   | 514   | 471   | 540   | 529   | 525   | 562   | 531   |
| <b>Suicide</b>                   | 168   | 168   | 199   | 199   | 213   | 219   | 215   | 197   | 202   | 215   | 185   | 205   | 192   | 249   | 219   | 254   | 261   | 312   | 311   |
| <b>Drug/alcohol intoxication</b> | 35    | 37    | 23    | 22    | 37    | 56    | 41    | 58    | 51    | 41    | 58    | 33    | 56    | 50    | 81    | 105   | 203   | 253   | 253   |
| <b>Accident</b>                  | 22    | 29    | 26    | 34    | 28    | 32    | 28    | 26    | 32    | 32    | 38    | 50    | 34    | 39    | 41    | 41    | 44    | 43    | 32    |
| <b>Homicide<sup>e</sup></b>      | 39    | 48    | 49    | 49    | 56    | 55    | 57    | 40    | 54    | 70    | 70    | 85    | 90    | 83    | 83    | 96    | 114   | 124   | 143   |
| <b>Other causes</b>              | 0     | 0     | 25    | 36    | 17    | 41    | 16    | 95    | 17    | 7     | 12    | 14    | 18    | 10    | 20    | 23    | 28    | 38    | 28    |
| <b>Missing/unknown</b>           | 38    | 37    | 0     | 0     | 0     | 0     | 52    | 0     | 34    | 3     | 9     | 11    | 7     | 21    | 13    | 13    | 31    | 85    | 42    |

Note: Data may have been revised from previously published statistics. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*.

<sup>a</sup>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 table 10 for deaths from 2015 to 2019 in federal prison facilities operated by the BOP or operated privately under a BOP contract.

<sup>b</sup>Includes deaths in private state facilities.

<sup>c</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>d</sup>Includes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

<sup>e</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*; and Federal Bureau of Prisons, *2001–2019*.

**TABLE 3**  
**Percent of deaths of state prisoners, by cause of death, 2001–2019**

| Cause of death                   | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| All causes                       | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| <b>Illness</b>                   | 89.5% | 89.1% | 89.8% | 89.1% | 88.9% | 87.5% | 87.9% | 87.9% | 88.6% | 88.6% | 88.9% | 88.1% | 88.6% | 87.0% | 87.7% | 85.8% | 82.8% | 79.3% | 78.9% |
| Heart disease                    | 25.9  | 27.4  | 25.4  | 27.0  | 26.4  | 26.4  | 24.8  | 24.5  | 24.9  | 25.7  | 25.5  | 23.9  | 25.8  | 25.7  | 26.8  | 27.6  | 27.8  | 25.5  | 26.9  |
| Cancer                           | 24.1  | 23.2  | 25.7  | 23.5  | 25.4  | 24.9  | 22.8  | 26.3  | 28.6  | 28.7  | 30.7  | 30.5  | 30.6  | 30.1  | 30.3  | 30.3  | 28.1  | 27.5  | 28.1  |
| Liver disease                    | 10.7  | 10.1  | 9.7   | 9.1   | 10.0  | 9.4   | 9.3   | 9.2   | 9.7   | 8.9   | 10.1  | 9.1   | 10.2  | 9.0   | 8.2   | 7.0   | 6.2   | 5.2   | 3.7   |
| AIDS-related <sup>a</sup>        | 9.6   | 8.2   | 6.6   | 4.7   | 4.9   | 4.1   | 3.5   | 2.9   | 2.9   | 2.3   | 1.7   | 2.2   | 1.5   | 1.8   | 1.2   | 0.8   | 0.9   | 0.5   | 0.4   |
| Respiratory disease              | 5.1   | 5.6   | 6.3   | 6.4   | 6.7   | 6.1   | 6.1   | 7.3   | 5.9   | 6.6   | 6.1   | 6.6   | 5.7   | 6.8   | 6.6   | 5.9   | 6.4   | 7.0   | 6.1   |
| All other illnesses <sup>b</sup> | 14.1  | 14.7  | 16.0  | 18.5  | 15.5  | 16.7  | 21.4  | 17.8  | 16.7  | 16.5  | 14.8  | 15.8  | 14.8  | 13.5  | 14.6  | 14.2  | 13.3  | 13.6  | 13.8  |
| <b>Suicide</b>                   | 5.9%  | 5.7%  | 6.3%  | 6.4%  | 6.7%  | 6.8%  | 6.3%  | 5.7%  | 5.9%  | 6.7%  | 5.5%  | 6.1%  | 5.5%  | 7.1%  | 5.9%  | 6.8%  | 6.6%  | 7.5%  | 8.1%  |
| <b>Drug/alcohol intoxication</b> | 1.2%  | 1.3%  | 0.7%  | 0.7%  | 1.2%  | 1.7%  | 1.2%  | 1.7%  | 1.5%  | 1.3%  | 1.7%  | 1.0%  | 1.6%  | 1.4%  | 2.2%  | 2.8%  | 5.1%  | 6.1%  | 6.6%  |
| <b>Accident</b>                  | 0.8%  | 1.0%  | 0.8%  | 1.1%  | 0.9%  | 1.0%  | 0.8%  | 0.8%  | 0.9%  | 1.0%  | 1.1%  | 1.5%  | 1.0%  | 1.1%  | 1.1%  | 1.1%  | 1.1%  | 1.0%  | 0.8%  |
| <b>Homicide<sup>c</sup></b>      | 1.4%  | 1.6%  | 1.6%  | 1.6%  | 1.8%  | 1.7%  | 1.7%  | 1.2%  | 1.6%  | 2.2%  | 2.1%  | 2.5%  | 2.6%  | 2.4%  | 2.2%  | 2.6%  | 2.9%  | 3.0%  | 3.7%  |
| <b>Other causes</b>              | 0%    | 0%    | 0.8%  | 1.2%  | 0.5%  | 1.3%  | 0.5%  | 2.8%  | 0.5%  | 0.2%  | 0.4%  | 0.4%  | 0.5%  | 0.3%  | 0.5%  | 0.6%  | 0.7%  | 0.9%  | 0.7%  |
| <b>Missing/unknown</b>           | 1.3%  | 1.3%  | 0%    | 0%    | 0%    | 0%    | 1.5%  | 0%    | 1.0%  | 0.1%  | 0.3%  | 0.3%  | 0.2%  | 0.6%  | 0.4%  | 0.3%  | 0.8%  | 2.1%  | 1.1%  |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to rounding. Includes deaths in private state facilities. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*.

<sup>a</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>b</sup>Includes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

<sup>c</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*.

**TABLE 4**  
**Mortality rate per 100,000 state prisoners, by cause of death, 2001–2019**

| Cause of death                   | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| All causes                       | 242  | 243  | 257  | 251  | 251  | 249  | 258  | 261  | 259  | 246  | 260  | 266  | 274  | 276  | 298  | 304  | 327  | 347  | 330  |
| Illness                          | 217  | 216  | 231  | 224  | 223  | 218  | 226  | 229  | 229  | 218  | 231  | 234  | 243  | 241  | 261  | 261  | 270  | 275  | 261  |
| Heart disease                    | 63   | 66   | 65   | 68   | 66   | 66   | 64   | 64   | 64   | 63   | 66   | 64   | 71   | 71   | 80   | 84   | 91   | 89   | 89   |
| Cancer                           | 58   | 56   | 66   | 59   | 64   | 62   | 59   | 68   | 74   | 71   | 80   | 81   | 84   | 83   | 90   | 92   | 92   | 96   | 93   |
| Liver disease                    | 26   | 24   | 25   | 23   | 25   | 23   | 24   | 24   | 25   | 22   | 26   | 24   | 28   | 25   | 24   | 21   | 20   | 18   | 12   |
| AIDS-related <sup>a</sup>        | 23   | 20   | 17   | 12   | 12   | 10   | 9    | 7    | 7    | 6    | 4    | 6    | 4    | 5    | 4    | 3    | 3    | 2    | 1    |
| Respiratory disease              | 12   | 13   | 16   | 16   | 17   | 15   | 16   | 19   | 15   | 16   | 16   | 18   | 16   | 19   | 20   | 18   | 21   | 24   | 20   |
| All other illnesses <sup>b</sup> | 34   | 36   | 41   | 47   | 39   | 42   | 55   | 47   | 43   | 41   | 38   | 42   | 40   | 37   | 43   | 43   | 43   | 47   | 46   |
| Suicide                          | 14   | 14   | 16   | 16   | 17   | 17   | 16   | 15   | 15   | 16   | 14   | 16   | 15   | 20   | 18   | 21   | 22   | 26   | 27   |
| Drug/alcohol intoxication        | 3    | 3    | 2    | 2    | 3    | 4    | 3    | 4    | 4    | 3    | 4    | 3    | 4    | 4    | 7    | 9    | 17   | 21   | 22   |
| Accident                         | 2    | 2    | 2    | 3    | 2    | 2    | 2    | 2    | 2    | 2    | 3    | 4    | 3    | 3    | 3    | 3    | 4    | 4    | 3    |
| Homicide <sup>c</sup>            | 3    | 4    | 4    | 4    | 4    | 4    | 4    | 3    | 4    | 5    | 5    | 7    | 7    | 7    | 7    | 8    | 9    | 10   | 12   |
| Other causes                     | 0    | 0    | 2    | 3    | 1    | 3    | 1    | 7    | 1    | 1!   | 1    | 1    | 1    | 1    | 2    | 2    | 2    | 3    | 2    |
| Missing/unknown                  | 3    | 3    | 0    | 0    | 0    | 0    | 4    | 0    | 3    | 0!   | 1!   | 1    | 1!   | 2    | 1    | 1    | 3    | 7    | 4    |

Note: Data may have been revised from previously published statistics. Includes deaths in private state facilities. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*. Mortality rates are per 100,000 prisoners 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. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>b</sup>Includes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

<sup>c</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*; and *National Prisoner Statistics, 2001–2019*.

**TABLE 5****Crude and adjusted mortality rate per 100,000 U.S. residents, by cause of death, 2019**

| Cause of death                   | Crude rate per 100,000 adult U.S. residents | Adjusted rate per 100,000 adult U.S. residents <sup>a</sup> | Rate per 100,000 state prisoners <sup>b</sup> |
|----------------------------------|---|---|---|
| <b>All causes</b>                | 1,110                                       | 435   | 308   |
| <b>Illness</b>                   | 1,039                                       | 355   | 248   |
| Heart disease                    | 265   | 99  | 85  |
| Cancer                           | 241   | 83  | 88  |
| Liver disease                    | 23  | 15  | 12  |
| AIDS-related <sup>c</sup>        | 2   | 4   | 1   |
| Respiratory disease              | 109   | 27  | 19  |
| All other illnesses <sup>d</sup> | 400   | 127   | 43  |
| <b>Suicide</b>                   | 18  | 22  | 25  |
| <b>Drug/alcohol intoxication</b> | 28  | 43  | 21  |
| <b>Accident<sup>e</sup></b>      | 23  | 11  | 3   |
| <b>Homicide<sup>f</sup></b>      | 2   | 4   | 11  |

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

<sup>a</sup>Population adjusted to resemble the sex, race or ethnicity, and age distribution of the state prison population.

<sup>b</sup>Mortality 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.

<sup>c</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>d</sup>Includes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

<sup>e</sup>Excludes causes of death that are unlikely to occur in a state prison setting, including motor vehicle accidents; homicides due to explosives or firearms not related to law enforcement, motor vehicle assault, or neglect; and firearm discharges not related to law enforcement.

<sup>f</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2019, National Prisoner Statistics, 2019, 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 2019 (released in 2020).

**TABLE 6**  
**Number of deaths of state prisoners, by decedent characteristics, 2001–2019**

| Characteristic                                 | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>                                   | 2,869 | 2,935 | 3,152 | 3,123 | 3,168 | 3,233 | 3,389 | 3,452 | 3,417 | 3,233 | 3,351 | 3,357 | 3,478 | 3,484 | 3,708 | 3,734 | 3,954 | 4,137 | 3,853 |
| <b>Sex</b>                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Male   | 2,769 | 2,816 | 3,024 | 2,987 | 3,025 | 3,103 | 3,252 | 3,289 | 3,267 | 3,116 | 3,208 | 3,244 | 3,337 | 3,330 | 3,558 | 3,591 | 3,822 | 3,955 | 3,686 |
| Female   | 100   | 119   | 127   | 136   | 143   | 130   | 137   | 163   | 150   | 117   | 143   | 113   | 141   | 154   | 150   | 143   | 131   | 180   | 146   |
| <b>Race/ethnicity</b>                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| White <sup>a</sup>                             | 1,340 | 1,401 | 1,590 | 1,546 | 1,623 | 1,627 | 1,719 | 1,822 | 1,774 | 1,680 | 1,912 | 1,789 | 1,901 | 1,921 | 2,051 | 2,065 | 2,159 | 2,201 | 2,144 |
| Black <sup>a</sup>                             | 1,161 | 1,152 | 1,200 | 1,179 | 1,162 | 1,148 | 1,225 | 1,157 | 1,199 | 1,121 | 1,037 | 1,113 | 1,104 | 1,108 | 1,204 | 1,204 | 1,275 | 1,350 | 1,174 |
| Hispanic                                       | 322   | 332   | 308   | 332   | 324   | 404   | 383   | 400   | 372   | 359   | 329   | 379   | 402   | 368   | 367   | 382   | 438   | 503   | 419   |
| American Indian/<br>Alaska Native <sup>a</sup> | 25    | 20    | 24    | 29    | 32    | 25    | 34    | 36    | 31    | 36    | 36    | 40    | 37    | 43    | 52    | 51    | 47    | 48    | 44    |
| Asian <sup>a,b</sup>                           | 11    | 19    | 15    | 20    | 18    | 10    | 18    | 22    | 24    | 21    | 22    | 24    | 25    | 29    | 25    | 24    | 23    | 29    | 30    |
| Other <sup>a,c</sup>                           | 5     | 5     | 6     | 16    | 4     | 15    | 2     | 15    | 3     | 4     | 3     | 6     | 8     | 15    | 8     | 5     | 4     | 1     | 15    |
| <b>Age</b>                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 17 or younger                                  | 2     | 1     | 3     | 1     | 1     | 1     | 1     | 3     | 0     | 3     | 2     | 0     | 0     | 2     | 0     | 1     | 1     | 0     | 0     |
| 18–24  | 86    | 62    | 57    | 81    | 78    | 60    | 68    | 67    | 69    | 69    | 50    | 69    | 69    | 56    | 69    | 72    | 60    | 66    | 59    |
| 25–34  | 256   | 248   | 277   | 255   | 243   | 250   | 226   | 222   | 210   | 217   | 200   | 190   | 221   | 221   | 230   | 247   | 308   | 327   | 308   |
| 35–44  | 656   | 662   | 666   | 619   | 599   | 561   | 513   | 468   | 467   | 382   | 397   | 360   | 334   | 335   | 346   | 381   | 412   | 421   | 412   |
| 45–54  | 893   | 908   | 980   | 963   | 1,009 | 1,061 | 1,031 | 1,063 | 1,039 | 956   | 930   | 876   | 861   | 821   | 804   | 721   | 698   | 776   | 628   |
| 55 or older                                    | 972   | 1,054 | 1,164 | 1,202 | 1,238 | 1,300 | 1,550 | 1,629 | 1,631 | 1,606 | 1,771 | 1,862 | 1,993 | 2,049 | 2,257 | 2,300 | 2,475 | 2,545 | 2,441 |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. Includes deaths in private state facilities. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*.

**TABLE 7**  
**Percent of deaths of state prisoners, by decedent characteristics, 2001–2019**

| Characteristic                                 | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>                                   | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| <b>Sex</b>                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Male   | 96.5% | 96.0% | 95.9% | 95.7% | 95.5% | 96.0% | 96.0% | 95.3% | 95.6% | 96.4% | 95.7% | 96.6% | 96.0% | 95.6% | 96.0% | 96.2% | 96.7% | 95.6% | 95.7% |
| Female   | 3.5   | 4.1   | 4.0   | 4.4   | 4.5   | 4.0   | 4.0   | 4.7   | 4.4   | 3.6   | 4.3   | 3.4   | 4.1   | 4.4   | 4.1   | 3.8   | 3.3   | 4.4   | 3.8   |
| <b>Race/ethnicity</b>                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| White <sup>a</sup>                             | 46.7% | 47.7% | 50.4% | 49.5% | 51.2% | 50.3% | 50.7% | 52.8% | 51.9% | 52.0% | 57.1% | 53.3% | 54.7% | 55.1% | 55.3% | 55.3% | 54.6% | 53.2% | 55.6% |
| Black <sup>a</sup>                             | 40.5  | 39.3  | 38.1  | 37.8  | 36.7  | 35.5  | 36.2  | 33.5  | 35.1  | 34.7  | 31.0  | 33.2  | 31.7  | 31.8  | 32.5  | 32.2  | 32.3  | 32.6  | 30.5  |
| Hispanic                                       | 11.2  | 11.3  | 9.8   | 10.6  | 10.2  | 12.5  | 11.3  | 11.6  | 10.9  | 11.1  | 9.8   | 11.3  | 11.6  | 10.6  | 9.9   | 10.2  | 11.1  | 12.2  | 10.9  |
| American Indian/<br>Alaska Native <sup>a</sup> | 0.9   | 0.7   | 0.8   | 0.9   | 1.0   | 0.8   | 1.0   | 1.0   | 0.9   | 1.1   | 1.1   | 1.2   | 1.1   | 1.2   | 1.4   | 1.4   | 1.2   | 1.2   | 1.1   |
| Asian <sup>a,b</sup>                           | 0.4   | 0.7   | 0.5   | 0.6   | 0.6   | 0.3   | 0.5   | 0.6   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.8   | 0.7   | 0.6   | 0.6   | 0.7   | 0.8   |
| Other <sup>a,c</sup>                           | 0.2   | 0.2   | 0.2   | 0.5   | 0.1   | 0.5   | 0.1   | 0.4   | 0.1   | 0.1   | 0.1   | 0.2   | 0.2   | 0.4   | 0.2   | 0.1   | 0.1   | 0     | 0.4   |
| <b>Age</b>                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 17 or younger                                  | <0.1% | <0.1% | 0.1%  | <0.1% | <0.1% | <0.1% | <0.1% | <0.1% | 0%    | <0.1% | <0.1% | 0%    | 0%    | <0.1% | 0%    | <0.1% | <0.1% | 0%    | 0%    |
| 18–24  | 3.0   | 2.1   | 1.8   | 2.6   | 2.5   | 1.9   | 2.0   | 1.9   | 2.0   | 2.1   | 1.5   | 2.1   | 2.0   | 1.6   | 1.9   | 1.9   | 1.5   | 1.6   | 1.5   |
| 25–34  | 8.9   | 8.5   | 8.8   | 8.2   | 7.7   | 7.7   | 6.7   | 6.4   | 6.2   | 6.7   | 6.0   | 5.7   | 6.4   | 6.3   | 6.2   | 6.6   | 7.8   | 7.9   | 8.0   |
| 35–44  | 22.9  | 22.6  | 21.1  | 19.8  | 18.9  | 17.4  | 15.1  | 13.6  | 13.7  | 11.8  | 11.9  | 10.7  | 9.6   | 9.6   | 9.3   | 10.2  | 10.4  | 10.2  | 10.7  |
| 45–54  | 31.1  | 30.9  | 31.1  | 30.8  | 31.9  | 32.8  | 30.4  | 30.8  | 30.4  | 29.6  | 27.8  | 26.1  | 24.8  | 23.6  | 21.7  | 19.3  | 17.7  | 18.8  | 16.3  |
| 55 or older                                    | 33.9  | 35.9  | 36.9  | 38.5  | 39.1  | 40.2  | 45.7  | 47.2  | 47.7  | 49.7  | 52.9  | 55.5  | 57.3  | 58.8  | 60.9  | 61.6  | 62.6  | 61.5  | 63.4  |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. Includes deaths in private state facilities. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*.

**TABLE 8**  
**Mortality rate per 100,000 state prisoners, by decedent characteristics, 2001–2019**

| Characteristic                                 | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>                                   | 242   | 243   | 257   | 251   | 251   | 249   | 258   | 261   | 259   | 246   | 260   | 266   | 274   | 276   | 298   | 304   | 327   | 347   | 330   |
| <b>Sex</b>                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Male   | 250   | 249   | 265   | 258   | 258   | 257   | 266   | 267   | 266   | 255   | 267   | 276   | 283   | 285   | 308   | 315   | 341   | 359   | 341   |
| Female   | 131   | 148   | 154   | 158   | 162   | 141   | 146   | 173   | 163   | 128   | 160   | 131   | 159   | 171   | 168   | 161   | 148   | 204   | 171   |
| <b>Race/ethnicity</b>                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| White <sup>a</sup>                             | 333   | 335   | 367   | 353   | 361   | 358   | 385   | 408   | 407   | 390   | 456   | 436   | 464   | 474   | 518   | 536   | 566   | 586   | 581   |
| Black <sup>a</sup>                             | 226   | 226   | 241   | 238   | 237   | 230   | 244   | 230   | 243   | 232   | 221   | 245   | 246   | 255   | 286   | 294   | 320   | 347   | 309   |
| Hispanic                                       | 155   | 153   | 138   | 144   | 139   | 165   | 148   | 156   | 141   | 134   | 126   | 150   | 156   | 143   | 142   | 144   | 166   | 192   | 165   |
| American Indian/<br>Alaska Native <sup>a</sup> | 112   | 94    | 119   | 141   | 158   | 117   | 166   | 180   | 160   | 187   | 200   | 235   | 238   | 249   | 310   | 309   | 275   | 282   | 253   |
| Asian <sup>a,b</sup>                           | 34    | 102   | 62    | 123   | 100   | 66    | 86    | 139   | 151   | 130   | 134   | 120   | 112   | 197   | 152   | 129   | 144   | 162   | 174   |
| Other <sup>a,c</sup>                           | 26!   | 22!   | 19!   | 11    | 11!   | 3     | 9!    | 5     | 4!    | 4!    | 4!    | 7!    | 8!    | 2     | 2!    | 4!    | 1!    | 4!    | 4     |
| <b>Age</b>                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 17 or younger                                  | 68!   | 38!   | 117!  | 45!   | 46!   | 42!   | 41!   | 115!  | 0     | 140!  | 111!  | 0     | 0     | 206!  | 0     | 120!  | 127!  | 0     | 0     |
| 18–24  | 39    | 29    | 26    | 39    | 39    | 31    | 35    | 34    | 35    | 35    | 26    | 38    | 40    | 35    | 47    | 53    | 48    | 58    | 54    |
| 25–34  | 64    | 61    | 68    | 61    | 58    | 58    | 52    | 51    | 48    | 50    | 47    | 46    | 53    | 53    | 56    | 62    | 78    | 85    | 82    |
| 35–44  | 181   | 181   | 182   | 168   | 163   | 151   | 140   | 131   | 136   | 114   | 123   | 113   | 104   | 104   | 107   | 118   | 127   | 129   | 129   |
| 45–54  | 584   | 549   | 557   | 509   | 495   | 482   | 444   | 442   | 427   | 389   | 384   | 368   | 364   | 349   | 350   | 321   | 320   | 365   | 302   |
| 55 or older                                    | 2,032 | 2,010 | 2,070 | 1,966 | 1,855 | 1,762 | 1,927 | 1,859 | 1,737 | 1,580 | 1,632 | 1,615 | 1,619 | 1,563 | 1,623 | 1,580 | 1,637 | 1,620 | 1,580 |

Note: Data may have been revised from previously published statistics. Includes deaths in private state facilities. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*. Mortality rates are per 100,000 prisoners 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. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*; *National Prisoner Statistics, 2001–2019*; *Survey of Inmates in State Correctional Facilities, 2004*; and *Survey of Prison Inmates, 2016*.



**TABLE 9**  
**Number of deaths of state prisoners, by cause of death and decedent characteristics, 2001–19**

| Characteristic                                 | Illness                 |               |        |               |                           |                     |                                  | Suicide | Drug/alcohol intoxication | Accident | Homicide <sup>d</sup> |
|--|-------------------------|---------------|--------|---------------|---------------------------|---------------------|----------------------------------|---------|---------------------------|----------|-----------------------|
|  | All causes <sup>a</sup> | Heart disease | Cancer | Liver disease | AIDS-related <sup>b</sup> | Respiratory disease | All other illnesses <sup>c</sup> |         |                           |          |                       |
| <b>Total</b>                                   | 65,027                  | 16,911        | 17,866 | 5,543         | 1,949                     | 4,095               | 10,090                           | 4,183   | 1,493                     | 651      | 1,405                 |
| <b>Sex</b>                                     |                         |               |        |               |                           |                     |                                  |         |                           |          |                       |
| Male   | 62,379                  | 16,343        | 17,192 | 5,342         | 1,851                     | 3,891               | 9,541                            | 3,965   | 1,445                     | 629      | 1,396                 |
| Female   | 2,623                   | 566           | 673    | 201           | 98                        | 204                 | 548                              | 217     | 47                        | 22       | 9                     |
| <b>Race/ethnicity</b>                          |                         |               |        |               |                           |                     |                                  |         |                           |          |                       |
| White <sup>e</sup>                             | 34,265                  | 9,060         | 9,932  | 3,100         | 442                       | 2,358               | 4,769                            | 2,444   | 764                       | 372      | 621                   |
| Black <sup>e</sup>                             | 22,273                  | 6,246         | 6,087  | 1,233         | 1,284                     | 1,293               | 3,829                            | 891     | 384                       | 174      | 512                   |
| Hispanic                                       | 7,123                   | 1,326         | 1,544  | 1,063         | 203                       | 385                 | 1,283                            | 657     | 284                       | 85       | 231                   |
| American Indian/<br>Alaska Native <sup>e</sup> | 690                     | 155           | 150    | 101           | 11                        | 29                  | 102                              | 69      | 40                        | 11       | 15                    |
| Asian <sup>e,f</sup>                           | 409                     | 71            | 94     | 30            | 5                         | 15                  | 60                               | 89      | 14                        | 6        | 19                    |
| Other <sup>e,g</sup>                           | 140                     | 33            | 33     | 6             | 3                         | 9                   | 29                               | 16      | 5                         | 0        | 4                     |
| <b>Age</b>                                     |                         |               |        |               |                           |                     |                                  |         |                           |          |                       |
| 17 or younger                                  | 22                      | 2             | 4      | 1             | 0                         | 1                   | 1                                | 11      | 0                         | 1        | 1                     |
| 18–24  | 1,267                   | 148           | 78     | 15            | 19                        | 63                  | 140                              | 513     | 79                        | 42       | 146                   |
| 25–34  | 4,656                   | 755           | 399    | 88            | 249                       | 211                 | 577                              | 1,338   | 389                       | 113      | 416                   |
| 35–44  | 8,991                   | 2,053         | 1,426  | 638           | 745                       | 412                 | 1,364                            | 1,200   | 472                       | 154      | 360                   |
| 45–54  | 17,018                  | 4,037         | 4,670  | 2,369         | 661                       | 807                 | 2,757                            | 756     | 369                       | 138      | 263                   |
| 55 or older                                    | 33,039                  | 9,911         | 11,285 | 2,429         | 275                       | 2,600               | 5,247                            | 363     | 184                       | 202      | 218                   |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. Includes deaths in private state facilities. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*. Sex was unknown for 25 prisoners, race or ethnicity for 125, and age for 34.

<sup>a</sup>Includes other causes not specified and missing and unknown causes.

<sup>b</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>c</sup>Includes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

<sup>d</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

<sup>e</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>f</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>g</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–19*.

**TABLE 10****Average annual mortality rate per 100,000 state prisoners within each demographic group, by cause of death and decedent characteristics, 2001–19**

| Characteristic                                 | Illness                 |               |        |               |                           |                     |                                  | Suicide | Drug/alcohol intoxication | Accident | Homicide <sup>d</sup> |
|--|-------------------------|---------------|--------|---------------|---------------------------|---------------------|----------------------------------|---------|---------------------------|----------|-----------------------|
|  | All causes <sup>a</sup> | Heart disease | Cancer | Liver disease | AIDS-related <sup>b</sup> | Respiratory disease | All other illnesses <sup>c</sup> |         |                           |          |                       |
| <b>Total</b>                                   | 273                     | 71            | 75     | 23            | 8                         | 17                  | 42                               | 18      | 6                         | 3        | 6                     |
| <b>Sex</b>                                     |                         |               |        |               |                           |                     |                                  |         |                           |          |                       |
| Male   | 282                     | 74            | 78     | 24            | 8                         | 18                  | 43                               | 18      | 7                         | 3        | 6                     |
| Female   | 157                     | 34            | 40     | 12            | 6                         | 12                  | 33                               | 13      | 3                         | 1        | 1                     |
| <b>Race/ethnicity</b>                          |                         |               |        |               |                           |                     |                                  |         |                           |          |                       |
| White <sup>e</sup>                             | 433                     | 115           | 126    | 39            | 6                         | 30                  | 60                               | 31      | 10                        | 5        | 8                     |
| Black <sup>e</sup>                             | 253                     | 71            | 69     | 14            | 15                        | 15                  | 44                               | 10      | 4                         | 2        | 6                     |
| Hispanic                                       | 150                     | 28            | 33     | 22            | 4                         | 8                   | 27                               | 14      | 6                         | 2        | 5                     |
| American Indian/<br>Alaska Native <sup>e</sup> | 193                     | 43            | 42     | 28            | 3                         | 8                   | 29                               | 19      | 11                        | 3        | 4                     |
| Asian <sup>e,f</sup>                           | 163                     | 28            | 37     | 12            | 2!                        | 6                   | 24                               | 35      | 6                         | 2!       | 8                     |
| Other <sup>e,g</sup>                           | 8                       | 2             | 2      | <1!           | <1!                       | <1!                 | 2                                | 1       | <1!                       | 0        | <1!                   |
| <b>Age</b>                                     |                         |               |        |               |                           |                     |                                  |         |                           |          |                       |
| 17 or younger                                  | 65                      | 6!            | 12!    | 3!            | 0                         | 3!                  | 3!                               | 33      | 0                         | 3!       | 3!                    |
| 18–24  | 38                      | 4             | 2      | 0             | 1                         | 2                   | 4                                | 15      | 2                         | 1        | 4                     |
| 25–34  | 59                      | 10            | 5      | 1             | 3                         | 3                   | 7                                | 17      | 5                         | 1        | 5                     |
| 35–44  | 138                     | 32            | 22     | 10            | 11                        | 6                   | 21                               | 18      | 7                         | 2        | 6                     |
| 45–54  | 414                     | 98            | 114    | 58            | 16                        | 20                  | 67                               | 18      | 9                         | 3        | 6                     |
| 55 or older                                    | 1,697                   | 509           | 580    | 125           | 14                        | 134                 | 269                              | 19      | 9                         | 10       | 11                    |

Note: Data may have been revised from previously published statistics. Includes deaths in private state facilities. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*. Mortality rates are per 100,000 prisoners 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. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Includes other causes not specified and missing and unknown causes.

<sup>b</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>c</sup>Includes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses.

<sup>d</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

<sup>e</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>f</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>g</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–19*; National Prisoner Statistics, 2001–19; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.

**TABLE 11**  
**Mortality rate per 100,000 federal prisoners, by cause of death, 2001–2019**

| Cause of death              | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Total</b>                | 220  | 233  | 228  | 210  | 244  | 201  | 222  | 241  | 220  | 224  | 220  | 198  | 230  | 262  | 283  | 252  | 246  | 250  | 259  |
| <b>Illness</b>              | 196  | 213  | 217  | 197  | 222  | 188  | 195  | 217  | 198  | 203  | 204  | 182  | 213  | 238  | 249  | 220  | 208  | 190  | 210  |
| AIDS-related <sup>a</sup>   | 16   | 12   | 9    | 11   | 17   | 7    | 6    | 8    | 4!   | 4!   | 2!   | 3!   | 2!   | 0    | 1!   | 1!   | 4!   | 0    | 0    |
| <b>Suicide</b>              | 13   | 12   | 4!   | 7    | 8    | 7    | 11   | 13   | 12   | 6    | 10   | 11   | 8    | 14   | 12   | 12   | 16   | 19   | 20   |
| <b>Accident<sup>b</sup></b> | 4!   | 3!   | 3!   | 4!   | 4!   | 1!   | 0    | 4!   | 3!   | 1!   | 1!   | 2!   | 2!   | 1!   | 10   | 9    | 5!   | 9    | 11   |
| <b>Homicide<sup>c</sup></b> | 6!   | 2!   | 3!   | 2!   | 9    | 5!   | 7    | 8    | 4!   | 10   | 5!   | 3!   | 7    | 8    | 10   | 9    | 6    | 8    | 7    |
| <b>Other/unknown</b>        | 0    | 3!   | 1!   | 0    | 0    | 0    | 9    | 1!   | 4!   | 3!   | 1!   | 1!   | 1!   | 0    | 2!   | 2!   | 11   | 24   | 12   |

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 table 10 for deaths from 2015 to 2019 in federal prison facilities operated by the BOP or operated privately under a BOP contract. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*. Mortality rates are per 100,000 prisoners held in the custody of the BOP or private prison facilities contracted to the BOP.

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. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>b</sup>Includes deaths due to drug or alcohol intoxication.

<sup>c</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

Source: Bureau of Justice Statistics, National Prisoner Statistics, 2001–2019; and Federal Bureau of Prisons, 2001–2019.

**TABLE 12****Deaths of federal prisoners in federally and privately operated prison facilities, by cause of death, 2015–2019**

|   | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|------|------|------|------|------|
| <b>Number of deaths</b>                             | 464  | 395  | 388  | 383  | 390  |
| Illness <sup>a</sup>                                | 407  | 343  | 323  | 292  | 315  |
| AIDS-related <sup>b</sup>                           | 1    | 1    | 6    | 0    | 0    |
| Suicide   | 21   | 19   | 24   | 29   | 29   |
| Accident <sup>c</sup>                               | 16   | 14   | 8    | 14   | 18   |
| Homicide <sup>d</sup>                               | 16   | 15   | 10   | 12   | 11   |
| Other/unknown                                       | 3    | 3    | 17   | 36   | 17   |
| <b>Mortality rate per 100,000 federal prisoners</b> | 237  | 210  | 213  | 214  | 224  |
| Illness <sup>a</sup>                                | 209  | 183  | 181  | 163  | 181  |
| AIDS-related <sup>b</sup>                           | 1!   | 1!   | 3!   | 0    | 0    |
| Suicide   | 11   | 10   | 13   | 16   | 17   |
| Accident <sup>c</sup>                               | 8    | 7    | 4!   | 8    | 10   |
| Homicide <sup>d</sup>                               | 8    | 8    | 5    | 7    | 6    |
| Other/unknown                                       | 2!   | 2!   | 9    | 20   | 10   |

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 private federal facilities. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*. Mortality rates are per 100,000 prisoners held in the custody of the BOP or private prison facilities contracted to the BOP. 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. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes AIDS-related deaths.

<sup>b</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>c</sup>Includes deaths due to drug or alcohol intoxication.

<sup>d</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

Source: Bureau of Justice Statistics, National Prisoner Statistics, 2015–2019; and Federal Bureau of Prisons, 2015–2019.

**TABLE 13****Deaths of federal prisoners in federally and privately operated prison facilities, by decedent characteristics, 2015–2019**

|   | 2015  | 2016 | 2017  | 2018 | 2019  |
|---|-------|------|-------|------|-------|
| <b>Number of deaths</b>                             | 464   | 395  | 388   | 383  | 390   |
| <b>Sex</b>  |       |      |       |      |       |
| Male  | 449   | 380  | 371   | 373  | 375   |
| Female  | 15    | 15   | 17    | 9    | 15    |
| <b>Race/ethnicity</b>                               |       |      |       |      |       |
| White <sup>a</sup>                                  | 235   | 195  | 194   | 167  | 222   |
| Black <sup>a</sup>                                  | 135   | 121  | 114   | 130  | 90    |
| Hispanic  | 73    | 60   | 63    | 65   | 56    |
| American Indian/<br>Alaska Native <sup>a</sup>      | 14    | 13   | 13    | 16   | 16    |
| Asian <sup>a,b</sup>                                | 7     | 6    | 4     | 4    | 6     |
| <b>Age</b>  |       |      |       |      |       |
| 17 or younger                                       | 0     | 0    | 0     | 0    | 0     |
| 18–24   | 4     | 7    | 1     | 3    | 1     |
| 25–34   | 34    | 20   | 23    | 24   | 13    |
| 35–44   | 49    | 56   | 50    | 62   | 50    |
| 45–54   | 101   | 91   | 73    | 84   | 86    |
| 55 or older   | 274   | 216  | 239   | 209  | 240   |
| <b>Mortality rate per 100,000 federal prisoners</b> | 237   | 210  | 213   | 214  | 224   |
| <b>Sex</b>  |       |      |       |      |       |
| Male  | 246   | 216  | 219   | 224  | 231   |
| Female  | 117   | 119  | 137   | 72!  | 122   |
| <b>Race/ethnicity</b>                               |       |      |       |      |       |
| White <sup>a</sup>                                  | 571   | 486  | 494   | 422  | 561   |
| Black <sup>a</sup>                                  | 215   | 200  | 194   | 224  | 161   |
| Hispanic  | 100   | 87   | 95    | 102  | 91    |
| American Indian/<br>Alaska Native <sup>a</sup>      | 430   | 390  | 371   | 449  | 453   |
| Asian <sup>a,b</sup>                                | 235!  | 215! | 147!  | 151! | 230!  |
| <b>Age</b>  |       |      |       |      |       |
| 17 or younger                                       | 0     | 0    | 0     | 0    | 0     |
| 18–24   | 42!   | 79!  | 12!   | 38!  | 15!   |
| 25–34   | 60    | 38   | 46    | 49   | 28    |
| 35–44   | 72    | 85   | 79    | 100  | 82    |
| 45–54   | 256   | 236  | 193   | 222  | 230   |
| 55 or older   | 1,250 | 984  | 1,089 | 939  | 1,055 |

Note: Data may have been revised from previously published statistics. Details may not sum to totals due to missing data. Includes deaths in private federal facilities. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*. Mortality rates are per 100,000 prisoners held in the custody of the BOP or private prison facilities contracted to the BOP. 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. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

Source: Bureau of Justice Statistics, National Prisoner Statistics, 2015–2019; and Federal Bureau of Prisons, 2015–2019.

**TABLE 14**  
**Number of deaths of state and federal prisoners, by jurisdiction, 2001–2019**

| Jurisdiction             | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Federal <sup>a</sup>     | 301   | 335   | 346   | 333   | 388   | 328   | 368   | 399   | 376   | 387   | 387   | 350   | 400   | 444   | 455   | 388   | 381   | 378   | 381   |
| State <sup>b</sup>       | 2,869 | 2,935 | 3,152 | 3,123 | 3,168 | 3,233 | 3,389 | 3,452 | 3,417 | 3,233 | 3,351 | 3,357 | 3,478 | 3,484 | 3,708 | 3,734 | 3,954 | 4,137 | 3,853 |
| Alabama                  | 87    | 85    | 92    | 65    | 66    | 61    | 54    | 75    | 80    | 66    | 104   | 86    | 107   | 102   | 112   | 118   | 116   | 125   | 129   |
| Alaska <sup>c</sup>      | 8     | 14    | 4     | 8     | 4     | 6     | 10    | 14    | 7     | 13    | 12    | 11    | 8     | 12    | 15    | 10    | 9     | 11    | 3     |
| Arizona                  | 64    | 73    | 84    | 66    | 78    | 72    | 61    | 77    | 85    | 85    | 86    | 87    | 95    | 99    | 105   | 126   | 133   | 131   | 114   |
| Arkansas                 | 42    | 31    | 39    | 34    | 38    | 37    | 46    | 41    | 50    | 54    | 50    | 43    | 56    | 57    | 54    | 71    | 81    | 76    | 76    |
| California               | 287   | 337   | 333   | 348   | 366   | 424   | 395   | 371   | 395   | 414   | 388   | 368   | 365   | 317   | 353   | 334   | 384   | 449   | 398   |
| Colorado                 | 42    | 51    | 47    | 39    | 54    | 31    | 42    | 38    | 49    | 48    | 37    | 48    | 40    | 35    | 51    | 57    | 41    | 55    | 49    |
| Connecticut <sup>d</sup> | 30    | 30    | 36    | 33    | 40    | 25    | 27    | 32    | 29    | 21    | 19    | 24    | 20    | 24    | 23    | 17    | 14    | 28    | 19    |
| Delaware <sup>d</sup>    | 16    | 15    | 19    | 13    | 19    | 13    | 15    | 15    | 12    | 23    | 15    | 10    | 14    | 18    | 17    | 14    | 10    | 16    | 13    |
| Florida                  | 182   | 183   | 221   | 226   | 244   | 261   | 249   | 291   | 278   | 275   | 297   | 324   | 305   | 346   | 354   | 356   | 428   | 440   | 400   |
| Georgia                  | 93    | 103   | 126   | 90    | 122   | 103   | 143   | 128   | 125   | 112   | 121   | 103   | 122   | 121   | 131   | 133   | 173   | 163   | 157   |
| Hawaii <sup>d</sup>      | 7     | 13    | 8     | 8     | 8     | 5     | 13    | 14    | 11    | 12    | 6     | 12    | 14    | 8     | 4     | 9     | 4     | 6     | 14    |
| Idaho                    | 17    | 9     | 12    | 12    | 13    | 18    | 14    | 18    | 13    | 13    | 13    | 9     | 10    | 23    | 18    | 16    | 15    | 22    | 25    |
| Illinois                 | 86    | 72    | 80    | 97    | 72    | 94    | 104   | 71    | 75    | 94    | 97    | 85    | 78    | 88    | 120   | 90    | 104   | 83    | 94    |
| Indiana                  | 46    | 49    | 56    | 56    | 45    | 70    | 54    | 70    | 91    | 69    | 74    | 59    | 66    | 70    | 85    | 70    | 68    | 67    | 93    |
| Iowa                     | 9     | 11    | 13    | 15    | 19    | 12    | 17    | 21    | 14    | 13    | 12    | 20    | 16    | 15    | 19    | 29    | 16    | 19    | 16    |
| Kansas                   | 21    | 22    | 32    | 30    | 19    | 16    | 20    | 24    | 20    | 22    | 25    | 17    | 28    | 21    | 25    | 35    | 26    | 33    | 35    |
| Kentucky                 | 36    | 41    | 45    | 42    | 43    | 46    | 46    | 68    | 57    | 42    | 60    | 55    | 40    | 44    | 60    | 42    | 70    | 50    | 63    |
| Louisiana                | 71    | 78    | 70    | 94    | 89    | 72    | 82    | 117   | 108   | 100   | 108   | 116   | 118   | 118   | 139   | 128   | 127   | 116   | 102   |
| Maine                    | 6     | 7     | 2     | 4     | 0     | 6     | 1     | 2     | 4     | 3     | 5     | 2     | 3     | 7     | 5     | 5     | 4     | 8     | 8     |
| Maryland                 | 70    | 71    | 67    | 78    | 57    | 61    | 57    | 69    | 56    | 40    | 41    | 46    | 58    | 43    | 62    | 49    | 57    | 57    | 61    |
| Massachusetts            | 29    | 20    | 30    | 25    | 37    | 39    | 39    | 29    | 29    | 39    | 33    | 42    | 39    | 45    | 34    | 34    | 37    | 42    | 34    |
| Michigan                 | 114   | 113   | 127   | 138   | 140   | 138   | 117   | 99    | 148   | 93    | 119   | 124   | 124   | 121   | 118   | 106   | 106   | 135   | 116   |
| Minnesota                | 13    | 15    | 13    | 6     | 13    | 9     | 13    | 17    | 12    | 16    | 19    | 14    | 20    | 14    | 11    | 18    | 6     | 6     | 10    |
| Mississippi              | 36    | 33    | 58    | 51    | 61    | 58    | 77    | 54    | 52    | 52    | 47    | 41    | 68    | 50    | 45    | 65    | 76    | 76    | 73    |
| Missouri                 | 57    | 65    | 65    | 77    | 68    | 66    | 78    | 87    | 81    | 88    | 74    | 71    | 92    | 97    | 106   | 99    | 94    | 106   | 84    |
| Montana                  | 6     | 5     | 12    | 12    | 12    | 5     | 5     | 9     | 3     | 2     | 6     | 11    | 7     | 19    | 13    | 16    | 13    | 5     | 8     |
| Nebraska                 | 7     | 8     | 7     | 7     | 8     | 8     | 12    | 6     | 11    | 12    | 17    | 11    | 16    | 13    | 17    | 9     | 16    | 10    | 17    |
| Nevada                   | 27    | 25    | 24    | 31    | 28    | 23    | 39    | 35    | 35    | 41    | 34    | 37    | 35    | 44    | 47    | 42    | 47    | 29    | 34    |
| New Hampshire            | 2     | 9     | 6     | 6     | 8     | 6     | 6     | 5     | 9     | 4     | 10    | 5     | 8     | 5     | 8     | 9     | 5     | 8     | 8     |
| New Jersey               | 69    | 60    | 47    | 57    | 60    | 70    | 60    | 66    | 58    | 56    | 66    | 48    | 46    | 50    | 52    | 49    | 39    | 33    | 43    |
| New Mexico               | 11    | 15    | 11    | 16    | 18    | 13    | 22    | 29    | 21    | 16    | 16    | 14    | 17    | 24    | 19    | 16    | 18    | 22    | 18    |
| New York                 | 175   | 185   | 198   | 153   | 170   | 131   | 148   | 133   | 142   | 124   | 117   | 115   | 142   | 123   | 115   | 147   | 143   | 138   | 112   |
| North Carolina           | 66    | 59    | 74    | 94    | 69    | 90    | 99    | 117   | 86    | 87    | 71    | 79    | 81    | 94    | 90    | 127   | 104   | 118   | 119   |
| North Dakota             | 3     | 1     | 1     | 1     | 1     | 1     | 0     | 0     | 0     | 1     | 1     | 3     | 1     | 0     | 0     | 4     | 2     | 0     | 1     |
| Ohio                     | 115   | 113   | 91    | 126   | 121   | 106   | 123   | 101   | 120   | 116   | 111   | 126   | 124   | 111   | 138   | 133   | 149   | 151   | 136   |

*Continued on next page*

**TABLE 14 (continued)**  
**Number of deaths of state and federal prisoners, by jurisdiction, 2001–2019**

| Jurisdiction              | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Oklahoma                  | 51   | 64   | 71   | 53   | 74   | 80   | 98   | 88   | 79   | 60   | 85   | 79   | 87   | 107  | 107  | 93   | 86   | 113  | 100  |
| Oregon                    | 24   | 33   | 25   | 34   | 37   | 40   | 36   | 31   | 34   | 39   | 40   | 26   | 30   | 31   | 37   | 47   | 25   | 34   | 39   |
| Pennsylvania              | 122  | 126  | 147  | 161  | 149  | 124  | 150  | 145  | 165  | 141  | 157  | 157  | 157  | 145  | 166  | 171  | 181  | 166  | 157  |
| Rhode Island <sup>d</sup> | 3    | 8    | 8    | 7    | 2    | 8    | 9    | 6    | 7    | 7    | 10   | 6    | 4    | 7    | 5    | 2    | 8    | 5    | 3    |
| South Carolina            | 69   | 45   | 63   | 50   | 75   | 65   | 72   | 83   | 49   | 70   | 55   | 58   | 66   | 66   | 76   | 79   | 105  | 100  | 70   |
| South Dakota              | 4    | 11   | 11   | 5    | 4    | 4    | 8    | 6    | 4    | 8    | 11   | 9    | 6    | 7    | 7    | 5    | 12   | 6    | 12   |
| Tennessee                 | 51   | 61   | 97   | 71   | 76   | 84   | 73   | 74   | 69   | 74   | 59   | 84   | 82   | 83   | 94   | 102  | 96   | 121  | 103  |
| Texas                     | 408  | 396  | 383  | 395  | 351  | 443  | 435  | 469  | 426  | 375  | 417  | 462  | 438  | 409  | 418  | 403  | 469  | 505  | 448  |
| Utah                      | 5    | 9    | 10   | 11   | 8    | 7    | 7    | 11   | 17   | 13   | 12   | 15   | 23   | 23   | 16   | 21   | 20   | 17   | 21   |
| Vermont <sup>d</sup>      | 3    | 2    | 5    | 1    | 6    | 7    | 1    | 3    | 3    | 5    | 0    | 2    | 8    | 6    | 4    | 7    | 4    | 2    | 5    |
| Virginia                  | 71   | 69   | 93   | 86   | 84   | 78   | 103  | 86   | 87   | 93   | 99   | 86   | 82   | 90   | 90   | 90   | 93   | 106  | 90   |
| Washington                | 29   | 30   | 31   | 36   | 45   | 36   | 39   | 35   | 44   | 35   | 21   | 33   | 39   | 38   | 42   | 28   | 40   | 36   | 37   |
| West Virginia             | 17   | 8    | 15   | 13   | 10   | 13   | 19   | 19   | 18   | 20   | 23   | 24   | 26   | 24   | 28   | 26   | 29   | 34   | 28   |
| Wisconsin                 | 48   | 49   | 41   | 40   | 29   | 45   | 43   | 44   | 42   | 25   | 48   | 46   | 43   | 58   | 46   | 66   | 43   | 52   | 49   |
| Wyoming                   | 5    | 3    | 2    | 2    | 8    | 3    | 8    | 9    | 7    | 2    | 3    | 4    | 4    | 12   | 7    | 11   | 8    | 6    | 9    |

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, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*.

<sup>a</sup>Excludes deaths in private federal facilities.

<sup>b</sup>Includes 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 Federal Bureau of Prisons.

<sup>c</sup>Prisons and jails form one integrated system. Counts include deaths only in state-operated prisons and jails and exclude deaths in 15 locally operated jails.

<sup>d</sup>Prisons and jails form one integrated system. Data include total prison and jail population.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*; and Federal Bureau of Prisons, 2001–2019.

**TABLE 15**  
**Mortality rate per 100,000 state and federal prisoners, by jurisdiction, 2001–2019**

| Jurisdiction             | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Federal <sup>a</sup>     | 220  | 233  | 228  | 210  | 244  | 201  | 222  | 241  | 220  | 224  | 220  | 198  | 230  | 262  | 283  | 252  | 246  | 250  | 259  |
| State <sup>b</sup>       | 242  | 243  | 257  | 251  | 251  | 249  | 258  | 261  | 259  | 246  | 260  | 266  | 274  | 276  | 298  | 304  | 327  | 347  | 331  |
| Alabama                  | 352  | 339  | 333  | 254  | 271  | 253  | 214  | 296  | 294  | 241  | 388  | 321  | 399  | 390  | 444  | 497  | 531  | 588  | 588  |
| Alaska <sup>c</sup>      | 175! | 322  | 89!  | 176! | 83!  | 119! | 194  | 280  | 128! | 242  | 193  | 174  | 157! | 190  | 286  | 205  | 207! | 260  | 69!  |
| Arizona                  | 231  | 249  | 270  | 204  | 234  | 201  | 162  | 195  | 210  | 212  | 215  | 217  | 232  | 235  | 249  | 299  | 317  | 312  | 269  |
| Arkansas                 | 366  | 262  | 323  | 270  | 305  | 288  | 347  | 312  | 375  | 380  | 355  | 306  | 392  | 374  | 342  | 448  | 510  | 488  | 483  |
| California               | 183  | 211  | 206  | 212  | 218  | 246  | 230  | 217  | 234  | 254  | 263  | 277  | 272  | 236  | 276  | 258  | 299  | 356  | 330  |
| Colorado                 | 243  | 274  | 242  | 198  | 256  | 141  | 185  | 164  | 216  | 211  | 169  | 236  | 198  | 171  | 256  | 294  | 209  | 275  | 252  |
| Connecticut <sup>d</sup> | 171  | 160  | 200  | 183  | 223  | 132  | 139  | 161  | 153  | 113  | 106  | 140  | 115  | 143  | 144  | 113  | 103  | 212  | 155  |
| Delaware <sup>d</sup>    | 234  | 226  | 287  | 193  | 280  | 185  | 211  | 216  | 182  | 361  | 229  | 149  | 206  | 267  | 264  | 221  | 163  | 287  | 257  |
| Florida                  | 251  | 243  | 278  | 272  | 282  | 289  | 262  | 291  | 274  | 269  | 294  | 325  | 302  | 343  | 356  | 363  | 443  | 460  | 425  |
| Georgia                  | 202  | 217  | 267  | 176  | 250  | 195  | 264  | 243  | 233  | 212  | 229  | 205  | 250  | 253  | 278  | 275  | 355  | 336  | 316  |
| Hawaii <sup>d</sup>      | 137! | 256  | 145! | 144! | 139! | 91!  | 238  | 257  | 227  | 227  | 110! | 227  | 271  | 148! | 74!  | 174! | 78!  | 120! | 292  |
| Idaho                    | 323  | 165! | 216  | 208  | 208  | 270  | 198  | 256  | 181  | 180  | 174  | 117! | 139  | 307  | 249  | 222  | 196  | 280  | 304  |
| Illinois                 | 194  | 169  | 184  | 220  | 160  | 208  | 230  | 156  | 166  | 194  | 200  | 172  | 160  | 182  | 260  | 206  | 253  | 208  | 246  |
| Indiana                  | 234  | 241  | 262  | 255  | 198  | 281  | 215  | 265  | 340  | 253  | 270  | 210  | 200  | 251  | 283  | 243  | 266  | 254  | 349  |
| Iowa                     | 113! | 131  | 152  | 176  | 217  | 136  | 196  | 241  | 157  | 137  | 132  | 229  | 184  | 170  | 214  | 320  | 178  | 202  | 173  |
| Kansas                   | 245  | 245  | 349  | 334  | 209  | 181  | 229  | 281  | 231  | 243  | 268  | 179  | 291  | 220  | 262  | 363  | 268  | 332  | 358  |
| Kentucky                 | 336  | 354  | 386  | 315  | 289  | 295  | 299  | 446  | 380  | 290  | 429  | 423  | 329  | 363  | 502  | 354  | 583  | 407  | 516  |
| Louisiana <sup>e</sup>   | 361  | 390  | 359  | 483  | 459  | 346  | 401  | 561  | 543  | 526  | 573  | 624  | 628  | 631  | 754  | 850  | 838  | 780  | 678  |
| Maine                    | 358! | 377! | 101! | 199! | 0    | 288! | 47!  | 98!  | 193! | 154! | 253! | 101! | 145! | 318! | 228! | 212! | 171! | 338! | 375! |
| Maryland                 | 295  | 294  | 282  | 335  | 253  | 269  | 246  | 298  | 254  | 175  | 178  | 211  | 267  | 202  | 296  | 242  | 288  | 300  | 327  |
| Massachusetts            | 284  | 202  | 305  | 254  | 358  | 362  | 352  | 260  | 260  | 349  | 288  | 377  | 367  | 431  | 358  | 380  | 422  | 502  | 434  |
| Michigan                 | 233  | 223  | 257  | 283  | 283  | 268  | 233  | 203  | 325  | 211  | 277  | 284  | 284  | 279  | 277  | 258  | 267  | 348  | 305  |
| Minnesota                | 203  | 219  | 172  | 75!  | 149  | 102! | 141  | 188  | 126  | 170  | 204  | 149  | 213  | 146  | 115  | 189  | 66!  | 66!  | 113  |
| Mississippi              | 238  | 215  | 366  | 312  | 379  | 354  | 441  | 302  | 302  | 316  | 305  | 260  | 436  | 383  | 322  | 474  | 561  | 572  | 544  |
| Missouri                 | 199  | 218  | 218  | 251  | 224  | 219  | 262  | 289  | 265  | 288  | 239  | 228  | 292  | 304  | 328  | 305  | 292  | 354  | 327  |
| Montana                  | 215! | 174! | 393  | 444  | 425  | 170! | 172! | 309! | 97!  | 64!  | 192! | 355  | 224! | 609  | 409  | 500  | 417  | 133! | 190! |
| Nebraska                 | 179! | 198! | 172! | 169! | 182! | 182! | 273  | 134! | 245  | 260  | 365  | 233  | 319  | 249  | 331  | 174! | 317  | 193  | 308  |
| Nevada                   | 274  | 248  | 227  | 281  | 240  | 180  | 293  | 272  | 278  | 336  | 280  | 294  | 274  | 347  | 355  | 304  | 355  | 217  | 272  |
| New Hampshire            | 83!  | 364! | 247! | 246! | 330! | 224! | 217! | 175! | 309! | 153! | 413  | 195! | 305! | 184! | 301! | 346! | 197! | 318! | 325! |
| New Jersey               | 265  | 228  | 183  | 224  | 234  | 274  | 237  | 266  | 241  | 229  | 279  | 208  | 207  | 234  | 256  | 252  | 203  | 173  | 235  |
| New Mexico               | 194  | 250  | 177  | 250  | 274  | 196  | 342  | 459  | 319  | 240  | 239  | 211  | 251  | 345  | 267  | 231  | 250  | 332  | 271  |
| New York                 | 259  | 276  | 303  | 239  | 270  | 206  | 236  | 221  | 243  | 220  | 212  | 213  | 266  | 235  | 223  | 290  | 289  | 295  | 257  |
| North Carolina           | 205  | 179  | 218  | 264  | 188  | 239  | 259  | 293  | 214  | 215  | 179  | 211  | 218  | 252  | 244  | 353  | 284  | 336  | 345  |
| North Dakota             | 276! | 90!  | 91!  | 88!  | 76!  | 75!  | 0    | 0    | 0    | 71!  | 72!  | 212! | 63!  | 0    | 0    | 244! | 126! | 0    | 57!  |
| Ohio                     | 256  | 250  | 205  | 285  | 268  | 219  | 247  | 198  | 236  | 224  | 218  | 248  | 240  | 215  | 264  | 255  | 289  | 300  | 270  |

*Continued on next page*



**TABLE 15 (continued)**  
**Mortality rate per 100,000 state and federal prisoners, by jurisdiction, 2001–2019**

| Jurisdiction              | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Oklahoma                  | 235  | 291  | 313  | 234  | 323  | 350  | 412  | 372  | 328  | 248  | 358  | 324  | 343  | 404  | 392  | 353  | 315  | 415  | 396  |
| Oregon                    | 219  | 283  | 205  | 269  | 287  | 303  | 269  | 229  | 248  | 281  | 291  | 184  | 205  | 214  | 252  | 322  | 171  | 231  | 271  |
| Pennsylvania              | 324  | 317  | 360  | 397  | 355  | 282  | 329  | 298  | 327  | 293  | 316  | 313  | 314  | 295  | 340  | 354  | 383  | 358  | 346  |
| Rhode Island <sup>d</sup> | 89!  | 230! | 224! | 221! | 59!  | 215! | 240! | 160! | 205! | 222! | 330  | 197! | 126! | 223! | 168! | 69!  | 298! | 194! | 116! |
| South Carolina            | 318  | 197  | 275  | 221  | 334  | 283  | 305  | 350  | 207  | 304  | 246  | 265  | 306  | 315  | 372  | 388  | 541  | 539  | 386  |
| South Dakota              | 143! | 374  | 364  | 164! | 120! | 121! | 244! | 179! | 118! | 236! | 309  | 250! | 166! | 200! | 198! | 133! | 308  | 156! | 322  |
| Tennessee                 | 292  | 333  | 507  | 367  | 394  | 435  | 379  | 382  | 346  | 369  | 298  | 424  | 395  | 399  | 475  | 474  | 436  | 619  | 532  |
| Texas                     | 275  | 260  | 250  | 252  | 223  | 279  | 274  | 295  | 269  | 234  | 261  | 298  | 282  | 265  | 274  | 266  | 311  | 337  | 307  |
| Utah                      | 121! | 210! | 216  | 233  | 158! | 139! | 136! | 214  | 324  | 239  | 227  | 283  | 427  | 433  | 331  | 467  | 403  | 327  | 412  |
| Vermont <sup>d</sup>      | 214! | 147! | 335! | 51!  | 289! | 316! | 47!  | 142! | 135! | 241! | 0    | 98!  | 385! | 303! | 229! | 403! | 300! | 117! | 300! |
| Virginia                  | 226  | 223  | 301  | 277  | 273  | 253  | 312  | 264  | 281  | 291  | 324  | 289  | 273  | 300  | 296  | 287  | 313  | 360  | 308  |
| Washington                | 190  | 184  | 191  | 218  | 268  | 214  | 231  | 204  | 255  | 206  | 123  | 195  | 220  | 221  | 244  | 163  | 226  | 207  | 207  |
| West Virginia             | 500  | 224! | 396  | 326  | 248  | 298  | 387  | 388  | 356  | 394  | 447  | 450  | 456  | 409  | 473  | 441  | 490  | 583  | 474  |
| Wisconsin                 | 231  | 226  | 185  | 181  | 132  | 199  | 188  | 197  | 189  | 113  | 214  | 205  | 192  | 257  | 201  | 285  | 183  | 221  | 209  |
| Wyoming                   | 336! | 183! | 123! | 113! | 382! | 147! | 415! | 528! | 402! | 96!  | 139! | 183! | 175! | 507  | 292! | 468  | 331! | 245! | 378! |

Note: Data may have been revised from previously published statistics. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*. Mortality rates are per 100,000 prisoners held in the custody of state prisons or the Federal Bureau of Prisons (BOP). 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. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes deaths in private federal facilities.

<sup>b</sup>Includes 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.

<sup>c</sup>Prisons and jails form one integrated system. Counts include deaths only in state-operated prisons and jails and exclude deaths in 15 locally operated jails.

<sup>d</sup>Prisons and jails form one integrated system. Data include total prison and jail population.

<sup>e</sup>In 2019, Louisiana held 52.4% 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, 2001–2019*, and *National Prisoner Statistics, 2001–2019*; and *Federal Bureau of Prisons, 2001–2019*.

**TABLE 16**  
**Number of deaths of state and federal prisoners, by cause of death and jurisdiction, 2001–19**

| Jurisdiction             | Illness                 |               |        |               |                           |                     |                                  | Suicide | Drug/alcohol intoxication | Accident | Homicide <sup>d</sup> |
|--------------------------|-------------------------|---------------|--------|---------------|---------------------------|---------------------|----------------------------------|---------|---------------------------|----------|-----------------------|
|                          | All causes <sup>a</sup> | Heart disease | Cancer | Liver disease | AIDS-related <sup>b</sup> | Respiratory disease | All other illnesses <sup>c</sup> |         |                           |          |                       |
| Federal <sup>e</sup>     | 7,125                   | ...           | ...    | ...           | 167                       | ...                 | 6,192                            | 342     | ...                       | 118      | 193                   |
| State <sup>f</sup>       | 65,027                  | 16,911        | 17,866 | 5,543         | 1,949                     | 4,095               | 10,090                           | 4,183   | 1,493                     | 651      | 1,405                 |
| Alabama                  | 1,730                   | 404           | 433    | 137           | 38                        | 113                 | 306                              | 46      | 27                        | 17       | 63                    |
| Alaska <sup>g</sup>      | 179                     | 42            | 29     | 17            | 1                         | 4                   | 24                               | 36      | 10                        | 9        | 4                     |
| Arizona                  | 1,721                   | 419           | 455    | 211           | 35                        | 96                  | 210                              | 123     | 87                        | 15       | 55                    |
| Arkansas                 | 976                     | 319           | 264    | 65            | 25                        | 48                  | 100                              | 63      | 52                        | 14       | 16                    |
| California               | 7,026                   | 1,183         | 1,728  | 656           | 116                       | 512                 | 1,429                            | 596     | 402                       | 54       | 304                   |
| Colorado                 | 854                     | 164           | 178    | 136           | 1                         | 61                  | 151                              | 79      | 39                        | 15       | 29                    |
| Connecticut <sup>h</sup> | 491                     | 117           | 69     | 69            | 11                        | 27                  | 99                               | 80      | 5                         | 6        | 7                     |
| Delaware <sup>h</sup>    | 287                     | 74            | 65     | 25            | 21                        | 14                  | 36                               | 33      | 6                         | 1        | 2                     |
| Florida                  | 5,660                   | 1,247         | 1,654  | 419           | 310                       | 366                 | 994                              | 197     | 186                       | 69       | 158                   |
| Georgia                  | 2,369                   | 780           | 597    | 125           | 83                        | 187                 | 300                              | 145     | 12                        | 22       | 89                    |
| Hawaii <sup>h</sup>      | 176                     | 33            | 46     | 17            | 4                         | 8                   | 25                               | 28      | 4                         | 2        | 7                     |
| Idaho                    | 290                     | 76            | 73     | 24            | 4                         | 13                  | 44                               | 39      | 5                         | 5        | 4                     |
| Illinois                 | 1,684                   | 487           | 530    | 83            | 65                        | 96                  | 222                              | 137     | 15                        | 16       | 18                    |
| Indiana                  | 1,258                   | 336           | 336    | 106           | 23                        | 84                  | 180                              | 87      | 50                        | 18       | 32                    |
| Iowa                     | 306                     | 67            | 104    | 16            | 5                         | 31                  | 40                               | 34      | 3                         | 1        | 2                     |
| Kansas                   | 471                     | 131           | 136    | 51            | 2                         | 29                  | 67                               | 31      | 9                         | 8        | 3                     |
| Kentucky                 | 950                     | 323           | 307    | 67            | 30                        | 46                  | 133                              | 25      | 3                         | 5        | 6                     |
| Louisiana                | 1,953                   | 611           | 564    | 152           | 110                       | 98                  | 269                              | 42      | 10                        | 23       | 9                     |
| Maine                    | 82                      | 24            | 24     | 6             | 1                         | 6                   | 8                                | 4       | 2                         | 1        | 5                     |
| Maryland                 | 1,100                   | 278           | 232    | 83            | 109                       | 48                  | 122                              | 82      | 66                        | 9        | 51                    |
| Massachusetts            | 656                     | 186           | 180    | 61            | 10                        | 29                  | 92                               | 61      | 11                        | 11       | 4                     |
| Michigan                 | 2,296                   | 681           | 783    | 170           | 39                        | 132                 | 245                              | 134     | 42                        | 25       | 27                    |
| Minnesota                | 245                     | 51            | 72     | 33            | 1                         | 10                  | 45                               | 27      | 4                         | 1        | 1                     |
| Mississippi              | 1,073                   | 390           | 265    | 48            | 24                        | 52                  | 151                              | 58      | 5                         | 13       | 33                    |
| Missouri                 | 1,555                   | 422           | 476    | 159           | 26                        | 91                  | 227                              | 72      | 37                        | 9        | 24                    |
| Montana                  | 169                     | 34            | 46     | 26            | 2                         | 10                  | 26                               | 19      | 3                         | 1        | 2                     |
| Nebraska                 | 212                     | 47            | 50     | 27            | 4                         | 11                  | 22                               | 20      | 6                         | 3        | 7                     |
| Nevada                   | 657                     | 154           | 159    | 46            | 9                         | 32                  | 131                              | 40      | 6                         | 4        | 12                    |
| New Hampshire            | 127                     | 27            | 47     | 12            | 3                         | 7                   | 14                               | 12      | 5                         | 0        | 0                     |
| New Jersey               | 1,029                   | 329           | 244    | 60            | 83                        | 62                  | 137                              | 53      | 25                        | 10       | 14                    |
| New Mexico               | 336                     | 78            | 89     | 56            | 4                         | 18                  | 41                               | 29      | 7                         | 1        | 12                    |
| New York                 | 2,711                   | 726           | 784    | 197           | 221                       | 127                 | 246                              | 247     | 61                        | 34       | 30                    |
| North Carolina           | 1,724                   | 476           | 571    | 131           | 75                        | 114                 | 220                              | 68      | 13                        | 26       | 19                    |

*Continued on next page*

**TABLE 16 (continued)****Number of deaths of state and federal prisoners, by cause of death and jurisdiction, 2001–19**

| Jurisdiction              | Illness                 |               |        |               |                           |                     |                                  | Suicide | Drug/alcohol intoxication | Accident | Homicide <sup>d</sup> |
|---------------------------|-------------------------|---------------|--------|---------------|---------------------------|---------------------|----------------------------------|---------|---------------------------|----------|-----------------------|
|                           | All causes <sup>a</sup> | Heart disease | Cancer | Liver disease | AIDS-related <sup>b</sup> | Respiratory disease | All other illnesses <sup>c</sup> |         |                           |          |                       |
| North Dakota              | 21                      | 4             | 5      | 2             | 1                         | 0                   | 4                                | 4       | 1                         | 0        | 0                     |
| Ohio                      | 2,311                   | 654           | 801    | 120           | 34                        | 177                 | 316                              | 134     | 24                        | 8        | 33                    |
| Oklahoma                  | 1,575                   | 424           | 400    | 169           | 30                        | 89                  | 204                              | 92      | 46                        | 32       | 65                    |
| Oregon                    | 642                     | 136           | 189    | 87            | 7                         | 29                  | 81                               | 37      | 14                        | 7        | 10                    |
| Pennsylvania              | 2,887                   | 802           | 848    | 244           | 38                        | 182                 | 531                              | 169     | 23                        | 16       | 21                    |
| Rhode Island <sup>h</sup> | 115                     | 27            | 21     | 3             | 5                         | 5                   | 11                               | 27      | 5                         | 3        | 1                     |
| South Carolina            | 1,316                   | 499           | 281    | 81            | 36                        | 54                  | 198                              | 79      | 17                        | 7        | 61                    |
| South Dakota              | 140                     | 35            | 34     | 18            | 1                         | 14                  | 13                               | 17      | 1                         | 4        | 3                     |
| Tennessee                 | 1,554                   | 470           | 426    | 158           | 43                        | 77                  | 201                              | 77      | 38                        | 13       | 39                    |
| Texas                     | 8,050                   | 2,015         | 2,039  | 816           | 173                       | 632                 | 1,619                            | 527     | 39                        | 79       | 83                    |
| Utah                      | 266                     | 63            | 59     | 20            | 0                         | 11                  | 48                               | 41      | 5                         | 4        | 9                     |
| Vermont <sup>h</sup>      | 74                      | 19            | 15     | 11            | 3                         | 1                   | 11                               | 11      | 3                         | 0        | 0                     |
| Virginia                  | 1,676                   | 450           | 565    | 157           | 55                        | 87                  | 223                              | 65      | 28                        | 10       | 15                    |
| Washington                | 674                     | 153           | 196    | 72            | 9                         | 59                  | 104                              | 48      | 11                        | 11       | 8                     |
| West Virginia             | 394                     | 156           | 104    | 26            | 6                         | 17                  | 59                               | 11      | 3                         | 2        | 7                     |
| Wisconsin                 | 857                     | 244           | 275    | 52            | 11                        | 69                  | 93                               | 88      | 13                        | 6        | 1                     |
| Wyoming                   | 113                     | 42            | 18     | 15            | 1                         | 9                   | 16                               | 9       | 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, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*.

...Not available.

<sup>a</sup>Includes other causes not specified and missing and unknown causes.

<sup>b</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

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

<sup>d</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

<sup>e</sup>Excludes deaths in private federal facilities.

<sup>f</sup>Includes 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.

<sup>g</sup>Prisons and jails form one integrated system. Counts include deaths only in state-operated prisons and jails and exclude deaths in 15 locally operated jails.

<sup>h</sup>Prisons and jails form one integrated system. Data include total prison and jail population.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–19*; and Federal Bureau of Prisons, 2001–19.

**TABLE 17****Average annual mortality rate per 100,000 state and federal prisoners, by cause of death and jurisdiction, 2001–19**

| Jurisdiction             | Illness                 |               |        |               |                           |                     |                                  |         |                           |          |                       |
|--------------------------|-------------------------|---------------|--------|---------------|---------------------------|---------------------|----------------------------------|---------|---------------------------|----------|-----------------------|
|                          | All causes <sup>a</sup> | Heart disease | Cancer | Liver disease | AIDS-related <sup>b</sup> | Respiratory disease | All other illnesses <sup>c</sup> | Suicide | Drug/alcohol intoxication | Accident | Homicide <sup>d</sup> |
| Federal <sup>e</sup>     | 233                     | ...           | ...    | ...           | 5                         | ...                 | 203                              | 11      | ...                       | 4        | 6                     |
| State <sup>f</sup>       | 273                     | 71            | 75     | 23            | 8                         | 17                  | 42                               | 18      | 6                         | 3        | 6                     |
| Alabama                  | 363                     | 85            | 91     | 29            | 8                         | 24                  | 64                               | 10      | 6                         | 4        | 13                    |
| Alaska <sup>g</sup>      | 187                     | 44            | 30     | 18            | 1!                        | 4!                  | 25                               | 38      | 10                        | 9!       | 4!                    |
| Arizona                  | 239                     | 58            | 63     | 29            | 5                         | 13                  | 29                               | 17      | 12                        | 2        | 8                     |
| Arkansas                 | 370                     | 121           | 100    | 25            | 9                         | 18                  | 38                               | 24      | 20                        | 5        | 6                     |
| California               | 247                     | 42            | 61     | 23            | 4                         | 18                  | 50                               | 21      | 14                        | 2        | 11                    |
| Colorado                 | 219                     | 42            | 46     | 35            | 0!                        | 16                  | 39                               | 20      | 10                        | 4        | 7                     |
| Connecticut <sup>h</sup> | 151                     | 36            | 21     | 21            | 3                         | 8!                  | 30                               | 25      | 2!                        | 2!       | 2!                    |
| Delaware <sup>h</sup>    | 231                     | 60            | 52     | 20            | 17                        | 11                  | 29                               | 27      | 5!                        | 1!       | 2!                    |
| Florida                  | 319                     | 70            | 93     | 24            | 17                        | 21                  | 56                               | 11      | 10                        | 4        | 9                     |
| Georgia                  | 250                     | 82            | 63     | 13            | 9                         | 20                  | 32                               | 15      | 1                         | 2        | 9                     |
| Hawaii <sup>h</sup>      | 175                     | 33            | 46     | 17            | 4!                        | 8                   | 25                               | 28      | 4!                        | 2!       | 7!                    |
| Idaho                    | 220                     | 58            | 55     | 18            | 3!                        | 10                  | 33                               | 30      | 4!                        | 4!       | 3!                    |
| Illinois                 | 198                     | 57            | 62     | 10            | 8                         | 11                  | 26                               | 16      | 2                         | 2        | 2                     |
| Indiana                  | 257                     | 69            | 69     | 22            | 5                         | 17                  | 37                               | 18      | 10                        | 4        | 7                     |
| Iowa                     | 182                     | 40            | 62     | 10            | 3!                        | 18                  | 24                               | 20      | 2!                        | 1!       | 1!                    |
| Kansas                   | 269                     | 75            | 78     | 29            | 1!                        | 17                  | 38                               | 18      | 5!                        | 5!       | 2!                    |
| Kentucky                 | 381                     | 129           | 123    | 27            | 12                        | 18                  | 53                               | 10      | 1!                        | 2!       | 2!                    |
| Louisiana <sup>i</sup>   | 554                     | 173           | 160    | 43            | 31                        | 28                  | 76                               | 12      | 3                         | 7        | 3!                    |
| Maine                    | 208                     | 61            | 61     | 15!           | 3!                        | 15!                 | 20!                              | 10!     | 5!                        | 3!       | 13!                   |
| Maryland                 | 263                     | 67            | 56     | 20            | 26                        | 11                  | 29                               | 20      | 16                        | 2!       | 12                    |
| Massachusetts            | 341                     | 97            | 94     | 32            | 5                         | 15                  | 48                               | 32      | 6                         | 6        | 2!                    |
| Michigan                 | 267                     | 79            | 91     | 20            | 5                         | 15                  | 28                               | 16      | 5                         | 3        | 3                     |
| Minnesota                | 147                     | 31            | 43     | 20            | 1!                        | 6                   | 27                               | 16      | 2!                        | 1!       | 1!                    |
| Mississippi              | 367                     | 134           | 91     | 16            | 8                         | 18                  | 52                               | 20      | 2!                        | 4        | 11                    |
| Missouri                 | 269                     | 73            | 82     | 27            | 4                         | 16                  | 39                               | 12      | 6                         | 2!       | 4                     |
| Montana                  | 286                     | 57            | 78     | 44            | 3!                        | 17                  | 44                               | 32      | 5!                        | 2!       | 3!                    |
| Nebraska                 | 239                     | 53            | 56     | 30            | 5!                        | 12                  | 25                               | 23      | 7!                        | 3!       | 8!                    |
| Nevada                   | 282                     | 66            | 68     | 20            | 4!                        | 14                  | 56                               | 17      | 3!                        | 2!       | 5                     |
| New Hampshire            | 259                     | 55            | 96     | 24            | 6!                        | 14!                 | 29                               | 24      | 10!                       | 0        | 0                     |
| New Jersey               | 234                     | 75            | 55     | 14            | 19                        | 14                  | 31                               | 12      | 6                         | 2        | 3                     |
| New Mexico               | 269                     | 62            | 71     | 45            | 3!                        | 14                  | 33                               | 23      | 6!                        | 1!       | 10                    |
| New York                 | 250                     | 67            | 72     | 18            | 20                        | 12                  | 23                               | 23      | 6                         | 3        | 3                     |
| North Carolina           | 247                     | 68            | 82     | 19            | 11                        | 16                  | 32                               | 10      | 2                         | 4        | 3                     |

*Continued on next page*

**TABLE 17 (continued)****Average annual mortality rate per 100,000 state and federal prisoners, by cause of death and jurisdiction, 2001–19**

| Jurisdiction              | Illness                 |               |        |               |                           |                     |                                  |         |                           |          |                       |
|---------------------------|-------------------------|---------------|--------|---------------|---------------------------|---------------------|----------------------------------|---------|---------------------------|----------|-----------------------|
|                           | All causes <sup>a</sup> | Heart disease | Cancer | Liver disease | AIDS-related <sup>b</sup> | Respiratory disease | All other illnesses <sup>c</sup> | Suicide | Drug/alcohol intoxication | Accident | Homicide <sup>d</sup> |
| North Dakota              | 77                      | 15!           | 18!    | 7!            | 4!                        | 0                   | 15!                              | 15!     | 4!                        | 0        | 0                     |
| Ohio                      | 247                     | 70            | 85     | 13            | 4                         | 19                  | 34                               | 14      | 3                         | 1!       | 4                     |
| Oklahoma                  | 340                     | 91            | 86     | 36            | 6                         | 19                  | 44                               | 20      | 10                        | 7        | 14                    |
| Oregon                    | 249                     | 53            | 73     | 34            | 3!                        | 11                  | 31                               | 14      | 5                         | 3!       | 4                     |
| Pennsylvania              | 331                     | 92            | 97     | 28            | 4                         | 21                  | 61                               | 19      | 3                         | 2        | 2                     |
| Rhode Island <sup>h</sup> | 189                     | 44            | 35     | 5!            | 8!                        | 8!                  | 18                               | 44      | 8!                        | 5!       | 2!                    |
| South Carolina            | 319                     | 121           | 68     | 20            | 9                         | 13                  | 48                               | 19      | 4                         | 2!       | 15                    |
| South Dakota              | 216                     | 54            | 52     | 28            | 2!                        | 22                  | 20                               | 26      | 2!                        | 6!       | 5!                    |
| Tennessee                 | 415                     | 125           | 114    | 42            | 11                        | 21                  | 54                               | 21      | 10                        | 3        | 10                    |
| Texas                     | 274                     | 69            | 69     | 28            | 6                         | 22                  | 55                               | 18      | 1                         | 3        | 3                     |
| Utah                      | 281                     | 67            | 62     | 21            | 0                         | 12                  | 51                               | 43      | 5!                        | 4!       | 10!                   |
| Vermont <sup>h</sup>      | 209                     | 54            | 42     | 31            | 8!                        | 3!                  | 31                               | 31      | 8!                        | 0        | 0                     |
| Virginia                  | 287                     | 77            | 97     | 27            | 9                         | 15                  | 38                               | 11      | 5                         | 2        | 3                     |
| Washington                | 209                     | 47            | 61     | 22            | 3!                        | 18                  | 32                               | 15      | 3                         | 3        | 2!                    |
| West Virginia             | 416                     | 165           | 110    | 27            | 6!                        | 18                  | 62                               | 12      | 3!                        | 2!       | 7!                    |
| Wisconsin                 | 201                     | 57            | 64     | 12            | 3                         | 16                  | 22                               | 21      | 3                         | 1!       | 0!                    |
| Wyoming                   | 289                     | 107           | 46     | 38            | 3!                        | 23!                 | 41                               | 23!     | 5!                        | 3!       | 0                     |

Note: Data may have been revised from previously published statistics. Excludes executions. For execution data, see *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021). See *Methodology*. Mortality rates are per 100,000 prisoners held in the custody of state prisons or the Federal Bureau of Prisons (BOP). Mortality rates are based on the annual number of deaths and a 1-day custody population on December 31.

...Not available.

! Interpret with caution. Estimate is based on 10 or fewer cases. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Includes other causes not specified and missing and unknown causes.

<sup>b</sup>Includes persons who died of illness and were identified as HIV-positive or having AIDS at the time of death.

<sup>c</sup>Includes other specified illnesses (such as cerebrovascular disease, influenza, and other nonleading natural causes of death) and unspecified illnesses. Includes natural and illness-related federal prisoner deaths for which the BOP could not provide details.

<sup>d</sup>Includes homicides committed by other prisoners, incidental to the use of force by staff, and resulting from assaults sustained prior to incarceration.

<sup>e</sup>Excludes deaths in private federal facilities.

<sup>f</sup>Includes 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.

<sup>g</sup>Prisons and jails form one integrated system. Counts include deaths only in state-operated prisons and jails and exclude deaths in 15 locally operated jails.

<sup>h</sup>Prisons and jails form one integrated system. Data include total prison and jail population.

<sup>i</sup>From 2001 to 2019, Louisiana held between 44.5% and 57.9% 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, 2001–19*, and *National Prisoner Statistics, 2001–19*; and *Federal Bureau of Prisons, 2001–19*.

# Methodology

## Data collection coverage

The Mortality in Correctional Institutions (MCI), formerly the Deaths in Custody Reporting Program (DCRP), was an annual Bureau of Justice Statistics (BJS) data collection from 2000 to 2019. The MCI obtained national-, state-, and incident-level data on persons who died while in the physical custody of the 50 state departments of corrections (DOCs) starting in 2001 or in the physical custody of the approximately 2,800 local jail jurisdictions with adult populations nationwide starting in 2000. This methodology pertains to the prison portion of the MCI collection only. See *Mortality in Local Jails, 2000–2019 – Statistical Tables* (NCJ 301368, BJS, December 2021) for data and the methodology on 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 collected annual data directly from state prison systems and maintained a 100% response rate throughout the 19 years of data collection. BJS used 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 ceased collection of mortality data in state and local correctional facilities after the 2019 data year. When DICRA was reauthorized in 2014 (P.L. 113–242), it included additional enforcement and reporting compliance requirements that are incompatible with BJS’s authorizing statute as a federal statistical agency. The U.S. Department of Justice (DOJ) determined it would be more appropriate for the Bureau of Justice Assistance (BJA) to administer the program and collect mortality data for the DOJ starting with the first quarter of fiscal year 2019 (October to December 2019). State DOCs and local jails now report their death information on a quarterly basis to centralized state agencies, which compile and submit this to BJA to comply with all applicable requirements in P.L. 113–242.

Mortality data measured by the MCI included the location and type of facility where the incarcerated person died, decedent characteristics (sex, race or ethnicity, and age), admission date, conviction status, and admission offense. The MCI also collected 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.<sup>3</sup> Statistics for 2001 to 2019 presented in this report are considered final as of February 18, 2021.

For more information on mortality in correctional settings, see—

- *Mortality in Local Jails, 2000–2019 – Statistical Tables* (NCJ 301368, BJS, December 2021)
- *Suicide in Local Jails and State and Federal Prisons, 2000–2019 – Statistical Tables* (NCJ 300731, BJS, October 2021)
- *Mortality in Local Jails, 2000–2018 – Statistical Tables* (NCJ 256002, BJS, April 2021)
- *Mortality in State and Federal Prisons, 2001–2018 – Statistical Tables* (NCJ 255970, BJS, April 2021)
- *Assessing Inmate Cause of Death: Deaths in Custody Reporting Program and National Death Index* (NCJ 249568, BJS, April 2016)
- *Suicide and Homicide in State Prisons and Local Jails* (NCJ 210036, BJS, August 2005).

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

<sup>3</sup>See *Capital Punishment, 2019 – Statistical Tables* (NCJ 300381, BJS, June 2021).

over such person. For instance, if a prison transports an ill prisoner to a hospital for medical services and that prisoner dies in the hospital while in the chain of custody of the prison, then that death is counted as a death 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 were 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 a state DOC or the BOP. The MCI obtains information about such deaths through the jail reports.

### 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.

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 a 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 collects other data reported to the MCI 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; and 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 BJS website.

### Reported statistics

Mortality data in this report include the number of deaths and mortality rates by year, 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 in state or



federal prisons 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, divided by the population estimate at the midpoint of the period. For general population mortality statistics, the NCHS uses the midyear population to approximate the average population that was exposed to risk of death during any given year.<sup>4</sup>

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 differs by sex, race or ethnicity, and age from the population in state and federal prisons, which in turn differs from the population in local jails. In 2019, BJS adjusted the general population in table 5 and figures 3 and 4 of this report to reflect the sex, race or ethnicity, and age 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*.

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

Sex and age 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. 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 comparison of mortality rates between state prisoners and U.S. residents. To allow for direct comparisons, BJS adjusted the U.S. resident population's mortality rates to the age-by-sex-by-race/ethnicity (ASR) distribution of state prisoners in 2019.

U.S. resident population mortality data 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. Because state prisons hold fewer than 800 persons age 17 or younger, BJS limited the WONDER death data to residents who had a known age at death and were age 18 or older in 2019. In addition, BJS excluded causes of death that are unlikely to occur in a prison setting, including motor vehicle accidents; homicides due to explosives or firearms not related to law enforcement, motor vehicle assault, or neglect; and firearm discharges not related to law enforcement.

For each cause of death, BJS parsed the WONDER death data to match ASR categories from the MCI and calculated 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 and then weighted to the race or ethnicity distribution from BJS's self-reported prisoner surveys using the process 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

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

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 2019, if the demographic distribution of the U.S. population resembled that of the state prison population. To obtain the adjusted mortality rate per 100,000 shown in table 5 and figures 3 and 4, 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 17 3-year periods spanning 19 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.”<sup>5,6</sup> 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, BJS 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.)

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

<sup>6</sup>See 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](https://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58_19.pdf)

**APPENDIX TABLE 1****Estimated number of state and federal prisoners in custody, by prisoner characteristics, 2001–2019**

| Characteristic                                 | Custody population, 2001–2019 | 2001      | 2002      | 2003      | 2004      | 2005      | 2006      | 2007      | 2008      | 2009      |
|--|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Total</b>                                   | 26,872,800                    | 1,322,600 | 1,352,600 | 1,377,900 | 1,403,100 | 1,420,400 | 1,460,600 | 1,482,100 | 1,489,800 | 1,490,600 |
| <b>Federal<sup>a</sup></b>                     | 3,053,100                     | 137,100   | 143,500   | 151,900   | 158,900   | 159,300   | 163,100   | 166,000   | 165,300   | 171,000   |
| <b>State<sup>b</sup></b>                       | 23,819,700                    | 1,185,500 | 1,209,100 | 1,226,000 | 1,244,200 | 1,261,100 | 1,297,500 | 1,316,100 | 1,324,500 | 1,319,600 |
| <b>Sex</b>                                     |                               |           |           |           |           |           |           |           |           |           |
| Male   | 22,148,200                    | 1,109,400 | 1,129,000 | 1,143,300 | 1,158,100 | 1,172,800 | 1,205,400 | 1,222,500 | 1,230,600 | 1,227,500 |
| Female   | 1,671,500                     | 76,100    | 80,100    | 82,700    | 86,100    | 88,300    | 92,100    | 93,600    | 93,900    | 92,100    |
| <b>Race/ethnicity</b>                          |                               |           |           |           |           |           |           |           |           |           |
| White <sup>c</sup>                             | 7,907,000                     | 401,900   | 418,100   | 433,200   | 437,400   | 449,900   | 455,100   | 446,600   | 446,900   | 436,200   |
| Black <sup>c</sup>                             | 8,791,200                     | 514,500   | 508,600   | 498,200   | 496,000   | 490,500   | 498,200   | 501,400   | 502,600   | 493,500   |
| Hispanic                                       | 4,740,600                     | 208,300   | 217,000   | 223,900   | 231,300   | 232,800   | 244,800   | 259,100   | 256,900   | 263,700   |
| American Indian/<br>Alaska Native <sup>c</sup> | 357,500                       | 22,300    | 21,300    | 20,100    | 20,600    | 20,200    | 21,300    | 20,500    | 20,000    | 19,400    |
| Asian <sup>c,d</sup>                           | 251,400                       | 11,800    | 11,700    | 12,900    | 12,200    | 12,000    | 12,100    | 12,800    | 13,000    | 13,200    |
| Other <sup>c,e</sup>                           | 1,771,700                     | 26,800    | 32,300    | 37,700    | 46,600    | 55,700    | 66,000    | 75,800    | 85,100    | 93,600    |
| <b>Age</b>                                     |                               |           |           |           |           |           |           |           |           |           |
| 17 or younger                                  | 33,600                        | 2,900     | 2,700     | 2,600     | 2,200     | 2,200     | 2,400     | 2,400     | 2,600     | 2,500     |
| 18–24  | 3,376,400                     | 218,000   | 217,400   | 216,100   | 207,700   | 200,000   | 196,700   | 196,700   | 197,900   | 198,700   |
| 25–34  | 7,862,400                     | 401,700   | 405,800   | 408,800   | 416,200   | 420,600   | 431,900   | 437,700   | 439,200   | 437,300   |
| 35–44  | 6,503,000                     | 362,000   | 365,600   | 366,400   | 367,700   | 367,900   | 372,600   | 366,600   | 356,600   | 343,700   |
| 45–54  | 4,113,700                     | 153,000   | 165,300   | 175,900   | 189,200   | 203,700   | 220,200   | 232,200   | 240,600   | 243,500   |
| 55 or older                                    | 1,947,000                     | 47,800    | 52,400    | 56,200    | 61,100    | 66,700    | 73,800    | 80,400    | 87,600    | 93,900    |

*Continued on next page*

**APPENDIX TABLE 1 (continued)****Estimated number of state and federal prisoners in custody, by prisoner characteristics, 2001–2019**

| Characteristic                                 | 2010      | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      | 2019      |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Total</b>                                   | 1,487,500 | 1,466,400 | 1,438,600 | 1,443,600 | 1,429,700 | 1,404,200 | 1,383,000 | 1,365,500 | 1,342,800 | 1,311,700 |
| <b>Federal<sup>a</sup></b>                     | 173,100   | 176,200   | 176,500   | 173,800   | 169,500   | 160,700   | 154,200   | 154,600   | 151,500   | 147,000   |
| <b>State<sup>b</sup></b>                       | 1,314,400 | 1,290,200 | 1,262,100 | 1,269,800 | 1,260,200 | 1,243,500 | 1,228,800 | 1,210,900 | 1,191,300 | 1,164,700 |
| <b>Sex</b>                                     |           |           |           |           |           |           |           |           |           |           |
| Male   | 1,222,900 | 1,201,100 | 1,175,700 | 1,180,900 | 1,170,000 | 1,154,400 | 1,139,900 | 1,122,400 | 1,102,900 | 1,079,300 |
| Female   | 91,500    | 89,100    | 86,400    | 88,900    | 90,200    | 89,100    | 88,900    | 88,500    | 88,400    | 85,400    |
| <b>Race/ethnicity</b>                          |           |           |           |           |           |           |           |           |           |           |
| White <sup>c</sup>                             | 430,400   | 419,500   | 410,100   | 409,500   | 405,200   | 395,600   | 385,400   | 381,200   | 375,800   | 368,700   |
| Black <sup>c</sup>                             | 482,600   | 468,700   | 453,600   | 449,400   | 434,500   | 420,500   | 409,600   | 398,800   | 389,400   | 380,500   |
| Hispanic                                       | 267,100   | 261,900   | 253,300   | 257,900   | 257,900   | 258,000   | 266,000   | 264,600   | 261,800   | 254,200   |
| American Indian/<br>Alaska Native <sup>c</sup> | 19,200    | 18,000    | 17,000    | 15,600    | 17,300    | 16,800    | 16,500    | 17,100    | 17,000    | 17,400    |
| Asian <sup>c,d</sup>                           | 13,100    | 13,400    | 13,300    | 13,400    | 13,700    | 14,500    | 14,700    | 14,600    | 14,800    | 14,400    |
| Other <sup>c,e</sup>                           | 102,000   | 108,700   | 114,800   | 124,000   | 131,500   | 138,100   | 136,600   | 134,600   | 132,400   | 129,400   |
| <b>Age</b>                                     |           |           |           |           |           |           |           |           |           |           |
| 17 or younger                                  | 2,100     | 1,800     | 1,400     | 1,100     | 1,000     | 900       | 800       | 800       | 600       | 600       |
| 18–24  | 196,000   | 189,100   | 180,400   | 173,700   | 161,300   | 145,500   | 134,800   | 124,000   | 112,800   | 109,500   |
| 25–34  | 434,800   | 424,400   | 413,800   | 415,300   | 417,700   | 407,700   | 400,000   | 393,000   | 382,800   | 373,800   |
| 35–44  | 334,200   | 324,100   | 318,200   | 320,500   | 323,700   | 322,500   | 322,600   | 323,800   | 325,700   | 318,700   |
| 45–54  | 245,600   | 242,300   | 238,000   | 236,500   | 235,000   | 229,400   | 224,900   | 218,200   | 212,300   | 208,000   |
| 55 or older                                    | 101,700   | 108,500   | 115,300   | 123,100   | 131,100   | 139,100   | 145,600   | 151,200   | 157,100   | 154,200   |

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.

<sup>a</sup>Excludes prisoners in private federal facilities.

<sup>b</sup>Includes prisoners in private state facilities.

<sup>c</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>d</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>e</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2019, National Prisoner Statistics, 2001–2019, Survey of Inmates in State and Federal Correctional Facilities, 2004, and Survey of Prison Inmates, 2016; and Federal Bureau of Prisons, 2001–2019.

**APPENDIX TABLE 2**
**Illness mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2003–2019 (3-year rolling averages)**

| Characteristic                                 | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Total</b>                                   | 221   | 224   | 226   | 222   | 223   | 225   | 228   | 226   | 226   | 228   | 236   | 239   | 248   | 254   | 264   | 269   | 269   |
| <b>Sex</b>                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Male   | 228   | 230   | 232   | 228   | 230   | 231   | 235   | 232   | 233   | 236   | 244   | 247   | 256   | 263   | 274   | 278   | 279   |
| Female   | 129   | 134   | 141   | 135   | 132   | 136   | 144   | 137   | 132   | 122   | 132   | 133   | 144   | 142   | 138   | 145   | 148   |
| <b>Race/ethnicity</b>                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| White <sup>a</sup>                             | 305   | 310   | 318   | 313   | 321   | 333   | 349   | 352   | 367   | 377   | 400   | 402   | 425   | 441   | 463   | 469   | 474   |
| Black <sup>a</sup>                             | 214   | 218   | 222   | 218   | 218   | 213   | 218   | 215   | 214   | 213   | 216   | 225   | 237   | 250   | 262   | 268   | 263   |
| Hispanic                                       | 127   | 123   | 116   | 122   | 124   | 131   | 126   | 121   | 112   | 114   | 120   | 123   | 121   | 116   | 120   | 127   | 129   |
| American Indian/<br>Alaska Native <sup>a</sup> | 88    | 98    | 118   | 116   | 116   | 126   | 140   | 143   | 145   | 160   | 182   | 193   | 218   | 225   | 228   | 209   | 200   |
| Asian <sup>a,b</sup>                           | 49    | 63    | 56    | 48    | 52    | 53    | 77    | 77    | 78    | 85    | 99    | 116   | 105   | 101   | 97    | 101   | 103   |
| Other <sup>a,c</sup>                           | 9!    | 15    | 13    | 16    | 9     | 12    | 7     | 7     | 3!    | 4     | 5     | 7     | 7     | 6     | 3     | 1!    | 4     |
| <b>Age</b>                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 17 or younger                                  | 12!   | 13!   | 14!   | 15!   | 14!   | 27!   | 13!   | 42!   | 47!   | 57!   | 23!   | 29!   | 33!   | 74!   | 80!   | 91!   | 50!   |
| 18–24  | 13    | 13    | 13    | 14    | 13    | 14    | 15    | 15    | 14    | 14    | 15    | 15    | 16    | 14    | 13    | 10    | 11    |
| 25–34  | 39    | 38    | 38    | 35    | 32    | 29    | 26    | 25    | 25    | 24    | 24    | 23    | 24    | 25    | 28    | 27    | 27    |
| 35–44  | 155   | 151   | 143   | 130   | 120   | 110   | 106   | 98    | 94    | 85    | 81    | 75    | 71    | 70    | 70    | 69    | 63    |
| 45–54  | 534   | 507   | 488   | 461   | 435   | 416   | 397   | 382   | 364   | 346   | 338   | 324   | 317   | 299   | 284   | 272   | 257   |
| 55 or older                                    | 1,992 | 1,964 | 1,916 | 1,805 | 1,791 | 1,777 | 1,766 | 1,658 | 1,598 | 1,558 | 1,568 | 1,538 | 1,546 | 1,531 | 1,547 | 1,527 | 1,515 |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2001–2003 is shown as 2003). Includes deaths in private state facilities. Mortality rates are per 100,000 prisoners 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. See *Methodology*.

! Interpret with caution. Estimate is based on 10 or fewer cases. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*; National Prisoner Statistics, 2001–2019; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.

**APPENDIX TABLE 3**
**Cancer mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2003–2019 (3-year rolling averages)**

| Characteristic                                 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Total</b>                                   | 60   | 60   | 63   | 62   | 62   | 63   | 67   | 71   | 75   | 77   | 82   | 83   | 86   | 89   | 91   | 93   | 93   |
| <b>Sex</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Male   | 63   | 62   | 65   | 64   | 64   | 65   | 70   | 73   | 77   | 80   | 84   | 86   | 89   | 91   | 95   | 97   | 97   |
| Female   | 26   | 33   | 33   | 33   | 31   | 33   | 35   | 40   | 48   | 44   | 45   | 43   | 51   | 53   | 49   | 49   | 47   |
| <b>Race/ethnicity</b>                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| White <sup>a</sup>                             | 93   | 91   | 95   | 91   | 96   | 102  | 112  | 118  | 128  | 133  | 144  | 143  | 149  | 154  | 163  | 167  | 173  |
| Black <sup>a</sup>                             | 53   | 55   | 59   | 59   | 58   | 58   | 62   | 66   | 68   | 71   | 75   | 80   | 84   | 89   | 90   | 91   | 87   |
| Hispanic                                       | 27   | 28   | 26   | 29   | 25   | 25   | 25   | 30   | 31   | 33   | 33   | 35   | 37   | 38   | 40   | 42   | 42   |
| American Indian/<br>Alaska Native <sup>a</sup> | 24   | 26   | 36   | 34   | 31   | 32   | 32   | 43   | 39   | 53   | 55   | 56   | 58   | 57   | 62   | 55   | 54   |
| Asian <sup>a,b</sup>                           | 25!  | 27!  | 19!  | 25!  | 27   | 37   | 49   | 59   | 48   | 38   | 35   | 45   | 46   | 40   | 39   | 39   | 43   |
| Other <sup>a,c</sup>                           | 2!   | 4!   | 4!   | 7    | 4!   | 4!   | 1!   | 1!   | 1!   | 2!   | 1!   | 2!   | 2!   | 2!   | 1!   | <1!  | 1!   |
| <b>Age</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17 or younger                                  | 0    | 0    | 0    | 0    | 0    | 14!  | 13!  | 14!  | 16!  | 19!  | 23!  | 0    | 0    | 37!  | 80!  | 91!  | 50!  |
| 18–24  | 2    | 2    | 2    | 1!   | 2!   | 1!   | 2    | 3    | 4    | 4    | 3    | 2    | 2    | 2!   | 2!   | 2!   | 3    |
| 25–34  | 5    | 5    | 6    | 5    | 5    | 4    | 4    | 4    | 5    | 5    | 6    | 5    | 6    | 6    | 6    | 5    | 5    |
| 35–44  | 29   | 29   | 29   | 26   | 22   | 22   | 20   | 22   | 21   | 21   | 22   | 22   | 21   | 19   | 17   | 16   | 14   |
| 45–54  | 142  | 130  | 128  | 122  | 119  | 113  | 115  | 117  | 118  | 113  | 116  | 114  | 114  | 104  | 100  | 95   | 89   |
| 55 or older                                    | 696  | 670  | 665  | 612  | 580  | 577  | 592  | 584  | 584  | 573  | 572  | 553  | 550  | 558  | 560  | 558  | 553  |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2001–2003 is shown as 2003). Includes deaths in private state facilities. Mortality rates are per 100,000 prisoners 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. See *Methodology*.

! Interpret with caution. Estimate is based on 10 or fewer cases. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*; National Prisoner Statistics, 2001–2019; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.

**APPENDIX TABLE 4**
**Heart disease mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2003–2019 (3-year rolling averages)**

| Characteristic                                 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Total</b>                                   | 65   | 66   | 66   | 67   | 65   | 64   | 64   | 64   | 65   | 64   | 67   | 68   | 74   | 78   | 85   | 88   | 90   |
| <b>Sex</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Male   | 67   | 69   | 69   | 69   | 68   | 67   | 66   | 66   | 67   | 67   | 70   | 71   | 77   | 81   | 88   | 92   | 93   |
| Female   | 35   | 33   | 34   | 30   | 32   | 33   | 37   | 30   | 30   | 27   | 31   | 31   | 35   | 37   | 39   | 37   | 40   |
| <b>Race/ethnicity</b>                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| White <sup>a</sup>                             | 97   | 99   | 98   | 100  | 97   | 98   | 98   | 100  | 105  | 106  | 113  | 116  | 127  | 136  | 148  | 153  | 156  |
| Black <sup>a</sup>                             | 61   | 63   | 66   | 64   | 65   | 62   | 63   | 64   | 65   | 66   | 67   | 69   | 76   | 83   | 93   | 96   | 96   |
| Hispanic                                       | 28   | 27   | 25   | 27   | 29   | 32   | 31   | 29   | 26   | 23   | 24   | 24   | 26   | 25   | 28   | 31   | 33   |
| American Indian/<br>Alaska Native <sup>a</sup> | 19   | 29   | 34   | 29   | 26   | 31   | 38   | 36   | 34   | 39   | 51   | 66   | 73   | 65   | 60   | 63   | 70   |
| Asian <sup>a,b</sup>                           | 19!  | 19!  | 24!  | 19!  | 27   | 21!  | 31   | 18!  | 18!  | 28   | 37   | 52   | 38   | 37   | 27   | 29   | 30   |
| Other <sup>a,c</sup>                           | 2!   | 3!   | 4!   | 4!   | 3!   | 4!   | 2!   | 2!   | 1!   | 1!   | 1!   | 2!   | 2!   | 2!   | 1!   | 1!   | 2!   |
| <b>Age</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17 or younger                                  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 14!  | 16!  | 19!  | 0    | 29!  | 33!  | 37!  | 0    | 0    | 0    |
| 18–24  | 3    | 3    | 4    | 5    | 5    | 4    | 4    | 4    | 4    | 3    | 5    | 5    | 7    | 5    | 4    | 5    | 5    |
| 25–34  | 11   | 12   | 12   | 12   | 10   | 8    | 8    | 8    | 8    | 7    | 7    | 8    | 9    | 10   | 10   | 11   | 11   |
| 35–44  | 40   | 41   | 41   | 38   | 34   | 31   | 31   | 32   | 33   | 30   | 28   | 25   | 24   | 24   | 26   | 27   | 26   |
| 45–54  | 139  | 134  | 127  | 120  | 112  | 106  | 98   | 94   | 90   | 86   | 82   | 80   | 81   | 83   | 86   | 85   | 83   |
| 55 or older                                    | 683  | 661  | 614  | 592  | 572  | 550  | 526  | 488  | 468  | 448  | 455  | 450  | 468  | 473  | 493  | 489  | 491  |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2001–2003 is shown as 2003). Includes deaths in private state facilities. Mortality rates are per 100,000 prisoners 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. See *Methodology*.

! Interpret with caution. Estimate is based on 10 or fewer cases. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*; National Prisoner Statistics, 2001–2019; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.

**APPENDIX TABLE 5**
**Liver disease mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2003–2019 (3-year rolling averages)**

| Characteristic                                 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Total</b>                                   | 25   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 26   | 26   | 26   | 24   | 22   | 20   | 17   |
| <b>Sex</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Male   | 26   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 26   | 25   | 27   | 26   | 27   | 24   | 23   | 21   | 17   |
| Female   | 13   | 12   | 14   | 13   | 12   | 10   | 10   | 10   | 9    | 9    | 13   | 14   | 16   | 13   | 11   | 11   | 11   |
| <b>Race/ethnicity</b>                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| White <sup>a</sup>                             | 37   | 35   | 37   | 36   | 36   | 37   | 39   | 41   | 43   | 44   | 46   | 46   | 46   | 45   | 41   | 38   | 31   |
| Black <sup>a</sup>                             | 15   | 15   | 15   | 15   | 15   | 14   | 14   | 14   | 15   | 14   | 15   | 14   | 15   | 14   | 15   | 13   | 10   |
| Hispanic                                       | 30   | 26   | 25   | 24   | 27   | 27   | 25   | 22   | 20   | 21   | 24   | 25   | 25   | 19   | 16   | 15   | 15   |
| American Indian/<br>Alaska Native <sup>a</sup> | 22   | 23   | 21   | 29   | 36   | 31   | 33   | 26   | 32   | 26   | 30   | 30   | 34   | 36   | 40   | 32   | 23   |
| Asian <sup>a,b</sup>                           | 16!  | 24!  | 22!  | 17!  | 11!  | 8!   | 10!  | 8!   | 8!   | 13!  | 15!  | 12!  | 12!  | 12!  | 14!  | 7!   | 5!   |
| Other <sup>a,c</sup>                           | 1!   | 1!   | 1!   | 1!   | 0    | <1!  | <1!  | <1!  | 0    | <1!  | 1!   | 1!   | 1!   | 0    | 0    | 0    | 0    |
| <b>Age</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17 or younger                                  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 14!  | 16!  | 19!  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 18–24  | 0    | 0    | 0    | <1!  | 1!   | 1!   | 1!   | 1!   | 1!   | <1!  | <1!  | 1!   | 1!   | 1!   | 1!   | 1!   | 1!   |
| 25–34  | 2    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1!   | 1    | 1    | 1    | 1!   | 1!   | 1!   |
| 35–44  | 20   | 17   | 14   | 12   | 11   | 11   | 11   | 9    | 10   | 7    | 7    | 5    | 5    | 5    | 5    | 5    | 4    |
| 45–54  | 94   | 84   | 85   | 81   | 75   | 69   | 67   | 63   | 58   | 53   | 54   | 50   | 48   | 42   | 34   | 27   | 21   |
| 55 or older                                    | 130  | 134  | 134  | 128  | 137  | 136  | 136  | 129  | 137  | 139  | 156  | 150  | 146  | 126  | 118  | 107  | 91   |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2001–2003 is shown as 2003). Includes deaths in private state facilities. Mortality rates are per 100,000 prisoners 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. See *Methodology*.

! Interpret with caution. Estimate is based on 10 or fewer cases. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*; National Prisoner Statistics, 2001–2019; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.



**APPENDIX TABLE 6**
**Respiratory disease mortality rate per 100,000 state prisoners within each demographic group, by decedent characteristics, 2003–2019 (3-year rolling averages)**

| Characteristic                                 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Total</b>                                   | 14   | 15   | 16   | 16   | 16   | 17   | 17   | 17   | 16   | 17   | 16   | 17   | 18   | 19   | 19   | 21   | 22   |
| <b>Sex</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Male   | 14   | 16   | 17   | 16   | 16   | 17   | 17   | 17   | 16   | 17   | 17   | 18   | 19   | 19   | 20   | 21   | 22   |
| Female   | 9    | 11   | 14   | 16   | 15   | 16   | 14   | 12   | 10   | 7    | 10   | 9    | 10   | 11   | 12   | 16   | 14   |
| <b>Race/ethnicity</b>                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| White <sup>a</sup>                             | 21   | 23   | 25   | 23   | 25   | 27   | 28   | 28   | 28   | 31   | 32   | 32   | 34   | 36   | 38   | 40   | 42   |
| Black <sup>a</sup>                             | 12   | 14   | 16   | 16   | 15   | 14   | 14   | 15   | 13   | 13   | 12   | 14   | 15   | 16   | 16   | 18   | 19   |
| Hispanic                                       | 7    | 7    | 7    | 7    | 7    | 8    | 9    | 9    | 8    | 8    | 7    | 9    | 8    | 9    | 9    | 10   | 10   |
| American Indian/<br>Alaska Native <sup>a</sup> | 8!   | 2!   | 2!   | 2!   | 2!   | 6!   | 5!   | 5!   | 4!   | 9!   | 10!  | 10!  | 12!  | 20   | 18!  | 14!  | 10!  |
| Asian <sup>a,b</sup>                           | 8!   | 11!  | 8!   | 6!   | 3!   | 0    | 0    | 3!   | 5!   | 8!   | 15!  | 12!  | 10!  | 2!   | 2!   | 2!   | 5!   |
| Other <sup>a,c</sup>                           | 2!   | 3!   | 2!   | 1!   | 1!   | 0    | 0    | 0    | 0    | <1!  | 1!   | 1!   | 1!   | <1!  | 0    | 0    | <1!  |
| <b>Age</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17 or younger                                  | 0    | 0    | 0    | 15!  | 14!  | 14!  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 18–24  | 2    | 2    | 2    | 3    | 2    | 3    | 2    | 2    | 1!   | 2!   | 2    | 2!   | 2!   | 1!   | 1!   | 0    | <1!  |
| 25–34  | 3    | 4    | 4    | 3    | 3    | 3    | 3    | 3    | 2    | 3    | 3    | 3    | 2    | 2    | 1    | 2    | 2    |
| 35–44  | 8    | 8    | 9    | 9    | 9    | 8    | 8    | 7    | 6    | 5    | 4    | 4    | 4    | 4    | 5    | 6    | 5    |
| 45–54  | 26   | 26   | 26   | 24   | 22   | 23   | 21   | 21   | 21   | 19   | 18   | 16   | 16   | 16   | 14   | 15   | 14   |
| 55 or older                                    | 153  | 158  | 166  | 148  | 144  | 144  | 140  | 137  | 121  | 127  | 120  | 125  | 126  | 126  | 128  | 130  | 134  |

Note: Based on 3-year rolling averages. Labels show the most recent year only (for example, 2001–2003 is shown as 2003). Includes deaths in private state facilities. Mortality rates are per 100,000 prisoners 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. See *Methodology*.

! Interpret with caution. Estimate is based on 10 or fewer cases. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, *Mortality in Correctional Institutions, 2001–2019*; National Prisoner Statistics, 2001–2019; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.

**APPENDIX TABLE 7**

**Mortality rate due to all other illnesses per 100,000 state prisoners within each demographic group, by decedent characteristics, 2003–2019 (3-year rolling averages)**

| Characteristic                                 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Total  | 57   | 57   | 56   | 54   | 56   | 57   | 56   | 50   | 47   | 46   | 45   | 45   | 45   | 45   | 46   | 47   | 47   |
| <b>Sex</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Male   | 58   | 58   | 57   | 55   | 57   | 58   | 57   | 51   | 47   | 46   | 46   | 46   | 46   | 46   | 48   | 48   | 48   |
| Female   | 46   | 45   | 47   | 42   | 42   | 45   | 48   | 46   | 36   | 34   | 33   | 35   | 32   | 29   | 28   | 32   | 35   |
| <b>Race/ethnicity</b>                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| White <sup>a</sup>                             | 57   | 62   | 62   | 61   | 66   | 70   | 71   | 65   | 62   | 64   | 65   | 65   | 69   | 70   | 73   | 72   | 72   |
| Black <sup>a</sup>                             | 72   | 70   | 67   | 64   | 65   | 64   | 64   | 57   | 53   | 49   | 47   | 48   | 47   | 48   | 50   | 51   | 52   |
| Hispanic                                       | 35   | 35   | 34   | 35   | 36   | 38   | 36   | 31   | 27   | 30   | 31   | 30   | 26   | 25   | 26   | 29   | 29   |
| American Indian/<br>Alaska Native <sup>a</sup> | 16   | 19   | 25   | 23   | 23   | 26   | 32   | 34   | 37   | 33   | 36   | 30   | 40   | 47   | 50   | 45   | 43   |
| Asian <sup>a,b</sup>                           | 16!  | 24!  | 19!  | 17!  | 19!  | 21!  | 28   | 28   | 33   | 30   | 22!  | 22!  | 19!  | 28   | 30   | 39   | 39   |
| Other <sup>a,c</sup>                           | 2!   | 4!   | 3!   | 4!   | 2!   | 4    | 4!   | 3!   | 1!   | 1!   | 1!   | 2!   | 2!   | 2!   | 1!   | <1!  | 1!   |
| <b>Age</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17 or younger                                  | 12!  | 13!  | 14!  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 18–24  | 6    | 5    | 5    | 4    | 4    | 5    | 6    | 5    | 5    | 5    | 5    | 5    | 4    | 4    | 4    | 3    | 2!   |
| 25–34  | 18   | 16   | 15   | 13   | 12   | 12   | 11   | 9    | 9    | 8    | 7    | 6    | 6    | 7    | 9    | 9    | 8    |
| 35–44  | 58   | 55   | 50   | 45   | 44   | 40   | 37   | 29   | 25   | 22   | 21   | 19   | 18   | 17   | 17   | 16   | 15   |
| 45–54  | 133  | 132  | 122  | 114  | 107  | 104  | 96   | 87   | 77   | 75   | 68   | 64   | 58   | 54   | 51   | 51   | 49   |
| 55 or older                                    | 331  | 342  | 336  | 325  | 358  | 369  | 372  | 320  | 288  | 269  | 264  | 260  | 256  | 250  | 247  | 243  | 245  |

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, 2001–2003 is shown as 2003). Includes deaths in private state facilities. Mortality rates are per 100,000 prisoners 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. See *Methodology*.

! Interpret with caution. Estimate is based on 10 or fewer cases. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2019; National Prisoner Statistics, 2001–2019; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.

**APPENDIX TABLE 8**
**Rate of unnatural deaths per 100,000 state prisoners within each demographic group, by decedent characteristics, 2003–2019 (3-year rolling averages)**

| Characteristic                                 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Total</b>                                   | 23   | 24   | 25   | 26   | 27   | 26   | 25   | 26   | 27   | 28   | 29   | 31   | 32   | 36   | 42   | 51   | 59   |
| <b>Sex</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Male   | 24   | 25   | 26   | 27   | 28   | 27   | 26   | 26   | 27   | 29   | 30   | 32   | 33   | 37   | 44   | 53   | 62   |
| Female   | 13   | 16   | 14   | 15   | 14   | 15   | 15   | 16   | 18   | 18   | 17   | 20   | 22   | 23   | 19   | 22   | 22   |
| <b>Race/ethnicity</b>                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| White <sup>a</sup>                             | 37   | 38   | 40   | 41   | 43   | 43   | 44   | 44   | 46   | 48   | 50   | 53   | 57   | 63   | 71   | 83   | 93   |
| Black <sup>a</sup>                             | 14   | 15   | 14   | 15   | 16   | 15   | 15   | 16   | 16   | 18   | 18   | 20   | 22   | 26   | 34   | 44   | 54   |
| Hispanic                                       | 20   | 20   | 23   | 26   | 25   | 23   | 20   | 21   | 21   | 22   | 24   | 26   | 25   | 26   | 30   | 38   | 43   |
| American Indian/<br>Alaska Native <sup>a</sup> | 19   | 16   | 20   | 21   | 29   | 26   | 25   | 31   | 35   | 46   | 42   | 46   | 46   | 61   | 69   | 75   | 66   |
| Asian <sup>a,b</sup>                           | 36   | 41   | 49   | 47   | 35   | 42   | 41   | 51   | 55   | 53   | 52   | 49   | 65   | 61   | 48   | 52   | 64   |
| Other <sup>a,c</sup>                           | 6!   | 7!   | 5!   | 4!   | 2!   | 2!   | 1!   | 1!   | <1!  | 0    | <1!  | 1!   | 1!   | 1!   | 1!   | 1!   | 1!   |
| <b>Age</b>                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17 or younger                                  | 61!  | 53!  | 57!  | 29!  | 29!  | 41!  | 40!  | 42!  | 31!  | 38!  | 23!  | 29!  | 33!  | 37!  | 0    | 0    | 0    |
| 18–24  | 18   | 18   | 21   | 22   | 21   | 18   | 19   | 19   | 18   | 19   | 19   | 22   | 24   | 31   | 36   | 41   | 41   |
| 25–34  | 24   | 24   | 23   | 23   | 23   | 23   | 22   | 23   | 23   | 23   | 24   | 26   | 29   | 30   | 35   | 45   | 53   |
| 35–44  | 23   | 24   | 26   | 29   | 29   | 27   | 26   | 27   | 29   | 30   | 31   | 30   | 33   | 38   | 45   | 52   | 60   |
| 45–54  | 26   | 27   | 28   | 29   | 32   | 30   | 30   | 30   | 32   | 33   | 32   | 35   | 36   | 39   | 44   | 56   | 66   |
| 55 or older                                    | 32   | 35   | 35   | 37   | 38   | 40   | 36   | 38   | 39   | 46   | 46   | 51   | 46   | 48   | 55   | 66   | 74   |

Note: Unnatural deaths include deaths caused by suicide, drug or alcohol intoxication, accident, and homicide. Based on 3-year rolling averages. Labels show the most recent year only (for example, 2001–2003 is shown as 2003). Includes deaths in private state facilities. Mortality rates are per 100,000 prisoners 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. See *Methodology*.

! Interpret with caution. Estimate is based on 10 or fewer cases. See *Interpreting rates among small populations* in *Methodology*.

<sup>a</sup>Excludes persons of Hispanic origin (e.g., “white” refers to non-Hispanic whites and “black” refers to non-Hispanic blacks).

<sup>b</sup>Includes Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup>Includes persons of two or more races and other races.

Source: Bureau of Justice Statistics, Mortality in Correctional Institutions, 2001–2019; National Prisoner Statistics, 2001–2019; Survey of Inmates in State Correctional Facilities, 2004; and Survey of Prison Inmates, 2016.



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