

Data Brief 398. Suicide Mortality in the United States, 1999–2019

Data table for Figure 1. Age-adjusted suicide rates, by sex: United States, 1999–2019

| Year | Total | | Male | | Female | |
|------|--------|--------------------|--------|--------------------|--------|--------------------|
| | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 |
| 1999 | 29,199 | 10.5 | 23,458 | 17.8 | 5,741 | 4.0 |
| 2000 | 29,350 | 10.4 | 23,618 | 17.7 | 5,732 | 4.0 |
| 2001 | 30,622 | 10.7 | 24,672 | 18.2 | 5,950 | 4.1 |
| 2002 | 31,655 | 10.9 | 25,409 | 18.5 | 6,246 | 4.2 |
| 2003 | 31,484 | 10.8 | 25,203 | 18.1 | 6,281 | 4.2 |
| 2004 | 32,439 | 11.0 | 25,566 | 18.1 | 6,873 | 4.5 |
| 2005 | 32,637 | 10.9 | 25,907 | 18.1 | 6,730 | 4.4 |
| 2006 | 33,300 | 11.0 | 26,308 | 18.1 | 6,992 | 4.5 |
| 2007 | 34,598 | 11.3 | 27,269 | 18.5 | 7,329 | 4.6 |
| 2008 | 36,035 | 11.6 | 28,450 | 19.0 | 7,585 | 4.8 |
| 2009 | 36,909 | 11.8 | 29,089 | 19.2 | 7,820 | 4.9 |
| 2010 | 38,364 | 12.1 | 30,277 | 19.8 | 8,087 | 5.0 |
| 2011 | 39,518 | 12.3 | 31,003 | 20.0 | 8,515 | 5.2 |
| 2012 | 40,600 | 12.6 | 31,780 | 20.4 | 8,820 | 5.4 |
| 2013 | 41,149 | 12.6 | 32,055 | 20.3 | 9,094 | 5.5 |
| 2014 | 42,826 | 13.0 | 33,162 | 20.7 | 9,664 | 5.8 |
| 2015 | 44,193 | 13.3 | 33,994 | 21.1 | 10,199 | 6.0 |
| 2016 | 44,965 | 13.5 | 34,727 | 21.4 | 10,238 | 6.0 |
| 2017 | 47,173 | 14.0 | 36,782 | 22.4 | 10,391 | 6.1 |
| 2018 | 48,344 | 14.2 | 37,761 | 22.8 | 10,583 | 6.2 |
| 2019 | 47,511 | 13.9 | 37,256 | 22.4 | 10,255 | 6.0 |

NOTES: Suicides are identified using *International Classification of Diseases, 10th Revision* underlying cause-of-death codes U03, X60–X84, and Y87.0. Age-adjusted death rates were calculated using the direct method and the 2000 standard population.

SOURCE: National Center for Health Statistics, National Vital Statistics System, Mortality.

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Data table for Figure 2. Suicide rates for females, by age group: United States, 1999–2019

| Year | 10–14 | | 15–24 | | 25–44 | | 45–64 | | 65–74 | | 75 and over | |
|------|--------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|-------------|--------------------|
| | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 |
| 1999 | 50 | 0.5 | 575 | 3.0 | 2,359 | 5.5 | 1,868 | 6.0 | 420 | 4.1 | 469 | 4.5 |
| 2000 | 62 | 0.6 | 570 | 3.0 | 2,302 | 5.4 | 1,968 | 6.2 | 404 | 4.0 | 425 | 4.0 |
| 2001 | 65 | 0.6 | 562 | 2.9 | 2,326 | 5.5 | 2,192 | 6.6 | 392 | 3.9 | 412 | 3.9 |
| 2002 | 64 | 0.6 | 578 | 2.9 | 2,457 | 5.9 | 2,293 | 6.7 | 410 | 4.1 | 443 | 4.1 |
| 2003 | 56 | 0.5 | 607 | 3.0 | 2,373 | 5.7 | 2,450 | 6.9 | 381 | 3.8 | 414 | 3.8 |
| 2004 | 98 | 0.9 | 720 | 3.5 | 2,503 | 6.0 | 2,751 | 7.6 | 378 | 3.7 | 423 | 3.9 |
| 2005 | 68 | 0.7 | 714 | 3.5 | 2,411 | 5.8 | 2,682 | 7.2 | 404 | 4.0 | 450 | 4.1 |
| 2006 | 65 | 0.6 | 661 | 3.2 | 2,458 | 5.9 | 2,970 | 7.7 | 416 | 4.0 | 421 | 3.8 |
| 2007 | 52 | 0.5 | 659 | 3.1 | 2,567 | 6.2 | 3,197 | 8.1 | 441 | 4.2 | 411 | 3.7 |
| 2008 | 66 | 0.7 | 738 | 3.5 | 2,605 | 6.3 | 3,261 | 8.1 | 483 | 4.4 | 428 | 3.8 |
| 2009 | 88 | 0.9 | 776 | 3.6 | 2,562 | 6.2 | 3,480 | 8.5 | 523 | 4.6 | 389 | 3.5 |
| 2010 | 87 | 0.9 | 829 | 3.9 | 2,630 | 6.4 | 3,581 | 8.6 | 556 | 4.8 | 403 | 3.6 |
| 2011 | 85 | 0.8 | 863 | 4.0 | 2,793 | 6.8 | 3,724 | 8.8 | 625 | 5.2 | 421 | 3.7 |
| 2012 | 85 | 0.8 | 954 | 4.5 | 2,804 | 6.8 | 3,881 | 9.1 | 667 | 5.2 | 428 | 3.7 |
| 2013 | 141 | 1.4 | 975 | 4.5 | 2,833 | 6.8 | 3,990 | 9.4 | 722 | 5.4 | 431 | 3.7 |
| 2014 | 150 | 1.5 | 990 | 4.6 | 3,019 | 7.2 | 4,197 | 9.8 | 829 | 5.9 | 477 | 4.0 |
| 2015 | 158 | 1.6 | 1,132 | 5.3 | 3,157 | 7.5 | 4,383 | 10.2 | 829 | 5.7 | 540 | 4.5 |
| 2016 | 171 | 1.7 | 1,148 | 5.4 | 3,215 | 7.6 | 4,253 | 9.9 | 940 | 6.2 | 510 | 4.2 |
| 2017 | 169 | 1.7 | 1,225 | 5.8 | 3,339 | 7.8 | 4,172 | 9.7 | 982 | 6.2 | 501 | 4.0 |
| 2018 | 206 | 2.0 | 1,222 | 5.8 | 3,412 | 7.9 | 4,212 | 9.8 | 1,011 | 6.2 | 515 | 4.0 |
| 2019 | 203 | 2.0 | 1,154 | 5.5 | 3,236 | 7.4 | 4,104 | 9.6 | 985 | 5.9 | 568 | 4.3 |

NOTE: Suicides are identified using *International Classification of Diseases, 10th Revision* underlying cause-of-death codes U03, X60–X84, and Y87.0.

SOURCE: National Center for Health Statistics, National Vital Statistics System, Mortality.

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Data table for Figure 3. Suicide rates for males, by age group: United States, 1999–2019

| Year | 10–14 | | 15–24 | | 25–44 | | 45–64 | | 65–74 | | 75 and over | |
|------|--------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|-------------|--------------------|
| | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 |
| 1999 | 192 | 1.9 | 3,326 | 16.8 | 9,213 | 21.6 | 6,109 | 20.8 | 2,051 | 24.7 | 2,549 | 42.4 |
| 2000 | 238 | 2.3 | 3,424 | 17.1 | 9,052 | 21.3 | 6,414 | 21.3 | 1,888 | 22.7 | 2,589 | 42.4 |
| 2001 | 207 | 1.9 | 3,409 | 16.5 | 9,379 | 22.2 | 7,067 | 22.5 | 2,040 | 24.5 | 2,549 | 40.7 |
| 2002 | 196 | 1.8 | 3,432 | 16.4 | 9,440 | 22.5 | 7,633 | 23.5 | 2,053 | 24.5 | 2,642 | 41.3 |
| 2003 | 188 | 1.7 | 3,381 | 15.9 | 9,294 | 22.3 | 7,874 | 23.5 | 1,954 | 23.1 | 2,499 | 38.3 |
| 2004 | 185 | 1.7 | 3,596 | 16.7 | 9,209 | 22.2 | 8,166 | 23.6 | 1,901 | 22.2 | 2,496 | 37.6 |
| 2005 | 202 | 1.9 | 3,498 | 16.1 | 9,129 | 22.1 | 8,519 | 23.9 | 1,940 | 22.3 | 2,610 | 38.6 |
| 2006 | 151 | 1.4 | 3,528 | 16.0 | 9,118 | 22.1 | 9,039 | 24.6 | 1,968 | 22.2 | 2,494 | 36.2 |
| 2007 | 128 | 1.2 | 3,481 | 15.7 | 9,433 | 22.9 | 9,650 | 25.7 | 2,003 | 22.0 | 2,566 | 36.7 |
| 2008 | 149 | 1.4 | 3,560 | 16.0 | 9,398 | 22.8 | 10,491 | 27.4 | 2,313 | 24.3 | 2,531 | 35.7 |
| 2009 | 171 | 1.6 | 3,595 | 16.1 | 9,435 | 23.0 | 10,926 | 27.9 | 2,394 | 24.3 | 2,552 | 35.6 |
| 2010 | 180 | 1.7 | 3,771 | 16.9 | 9,676 | 23.6 | 11,602 | 29.2 | 2,418 | 23.9 | 2,617 | 36.0 |
| 2011 | 197 | 1.9 | 3,959 | 17.6 | 9,906 | 24.0 | 11,655 | 28.9 | 2,554 | 24.4 | 2,721 | 36.4 |
| 2012 | 221 | 2.1 | 3,918 | 17.4 | 10,170 | 24.5 | 11,910 | 29.5 | 2,700 | 24.1 | 2,853 | 37.5 |
| 2013 | 245 | 2.3 | 3,903 | 17.3 | 10,066 | 24.1 | 11,766 | 29.0 | 3,072 | 26.0 | 2,990 | 38.3 |
| 2014 | 275 | 2.6 | 4,100 | 18.2 | 10,270 | 24.4 | 12,116 | 29.7 | 3,286 | 26.6 | 3,110 | 38.9 |
| 2015 | 251 | 2.4 | 4,359 | 19.4 | 10,726 | 25.2 | 12,107 | 29.5 | 3,372 | 26.2 | 3,171 | 38.7 |
| 2016 | 265 | 2.5 | 4,575 | 20.5 | 11,181 | 26.2 | 11,943 | 29.1 | 3,463 | 25.9 | 3,291 | 39.2 |
| 2017 | 348 | 3.3 | 5,027 | 22.7 | 11,944 | 27.5 | 12,371 | 30.1 | 3,638 | 26.2 | 3,447 | 39.7 |
| 2018 | 390 | 3.7 | 4,989 | 22.7 | 12,129 | 27.7 | 12,673 | 31.0 | 3,963 | 27.8 | 3,613 | 39.9 |
| 2019 | 331 | 3.1 | 4,800 | 22.0 | 12,348 | 28.0 | 12,146 | 29.9 | 3,882 | 26.4 | 3,738 | 39.9 |

NOTE: Suicides are identified using *International Classification of Diseases, 10th Revision* underlying cause-of-death codes U03, X60–X84, and Y87.0.

SOURCE: National Center for Health Statistics, National Vital Statistics System, Mortality.

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Data table for Figure 4. Age-adjusted female suicide rates, by means of suicide: United States, 1999–2019

| Year | Firearm | | Poisoning | | Suffocation | | Other | |
|------|---------|--------------------|-----------|--------------------|-------------|--------------------|--------|--------------------|
| | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 |
| 1999 | 2,120 | 1.5 | 2,066 | 1.4 | 937 | 0.6 | 618 | 0.4 |
| 2000 | 2,132 | 1.5 | 2,067 | 1.4 | 955 | 0.7 | 578 | 0.4 |
| 2001 | 2,111 | 1.4 | 2,219 | 1.5 | 988 | 0.7 | 632 | 0.4 |
| 2002 | 2,063 | 1.4 | 2,389 | 1.6 | 1,107 | 0.8 | 687 | 0.5 |
| 2003 | 2,080 | 1.4 | 2,414 | 1.6 | 1,139 | 0.8 | 648 | 0.4 |
| 2004 | 2,227 | 1.5 | 2,600 | 1.7 | 1,356 | 0.9 | 690 | 0.5 |
| 2005 | 2,086 | 1.4 | 2,632 | 1.7 | 1,361 | 0.9 | 651 | 0.4 |
| 2006 | 2,149 | 1.4 | 2,815 | 1.8 | 1,318 | 0.9 | 710 | 0.5 |
| 2007 | 2,171 | 1.4 | 2,945 | 1.8 | 1,512 | 1.0 | 701 | 0.4 |
| 2008 | 2,292 | 1.4 | 2,982 | 1.9 | 1,591 | 1.0 | 720 | 0.5 |
| 2009 | 2,428 | 1.5 | 2,963 | 1.8 | 1,700 | 1.1 | 729 | 0.4 |
| 2010 | 2,430 | 1.5 | 3,026 | 1.9 | 1,901 | 1.2 | 730 | 0.4 |
| 2011 | 2,670 | 1.6 | 3,112 | 1.9 | 1,984 | 1.3 | 749 | 0.4 |
| 2012 | 2,756 | 1.7 | 3,191 | 1.9 | 2,072 | 1.3 | 801 | 0.5 |
| 2013 | 2,934 | 1.8 | 3,165 | 1.9 | 2,152 | 1.4 | 843 | 0.5 |
| 2014 | 3,003 | 1.8 | 3,295 | 1.9 | 2,533 | 1.6 | 833 | 0.5 |
| 2015 | 3,108 | 1.8 | 3,409 | 2.0 | 2,721 | 1.7 | 961 | 0.5 |
| 2016 | 3,291 | 1.9 | 3,382 | 1.9 | 2,591 | 1.6 | 974 | 0.6 |
| 2017 | 3,239 | 1.9 | 3,259 | 1.9 | 2,900 | 1.8 | 993 | 0.6 |
| 2018 | 3,331 | 1.9 | 3,100 | 1.7 | 3,163 | 1.9 | 989 | 0.6 |
| 2019 | 3,216 | 1.8 | 3,079 | 1.7 | 2,971 | 1.8 | 989 | 0.6 |

NOTES: Suicides are identified using *International Classification of Diseases, 10th Revision* (ICD–10) underlying cause-of-death codes U03, X60–X84, and Y87.0. Means of suicide are identified using ICD–10 codes X72–X74 for firearm, X60–X69 for poisoning, and X70 for suffocation. "Other" includes: Cut or pierce; Drowning; Falls; Fire and flame; Other land transport; Struck by or against; Other specified, classifiable injury; Other specified, not elsewhere classified injury; and Unspecified injury, as classified by ICD–10. Age-adjusted death rates were calculated using the direct method and the 2000 standard population.

SOURCE: National Center for Health Statistics, National Vital Statistics System, Mortality.

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Data table for Figure 5. Age-adjusted male suicide rates, by means of suicide: United States, 1999–2019

| Year | Firearm | | Poisoning | | Suffocation | | Other | |
|------|---------|--------------------|-----------|--------------------|-------------|--------------------|--------|--------------------|
| | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 | Number | Deaths per 100,000 |
| 1999 | 14,479 | 11.1 | 2,827 | 2.1 | 4,490 | 3.3 | 1,662 | 1.3 |
| 2000 | 14,454 | 11.0 | 2,792 | 2.1 | 4,733 | 3.4 | 1,639 | 1.2 |
| 2001 | 14,758 | 11.1 | 2,972 | 2.2 | 5,210 | 3.7 | 1,732 | 1.3 |
| 2002 | 15,045 | 11.1 | 3,097 | 2.2 | 5,355 | 3.8 | 1,912 | 1.4 |
| 2003 | 14,827 | 10.8 | 3,048 | 2.2 | 5,496 | 3.9 | 1,832 | 1.3 |
| 2004 | 14,523 | 10.4 | 3,200 | 2.3 | 5,980 | 4.2 | 1,863 | 1.3 |
| 2005 | 14,916 | 10.6 | 3,112 | 2.2 | 5,887 | 4.0 | 1,992 | 1.4 |
| 2006 | 14,734 | 10.3 | 3,294 | 2.2 | 6,173 | 4.2 | 2,107 | 1.4 |
| 2007 | 15,181 | 10.4 | 3,413 | 2.3 | 6,649 | 4.5 | 2,026 | 1.3 |
| 2008 | 15,931 | 10.7 | 3,460 | 2.3 | 6,987 | 4.7 | 2,072 | 1.4 |
| 2009 | 16,307 | 10.9 | 3,435 | 2.2 | 7,300 | 4.8 | 2,047 | 1.3 |
| 2010 | 16,962 | 11.2 | 3,573 | 2.3 | 7,592 | 5.0 | 2,150 | 1.4 |
| 2011 | 17,320 | 11.2 | 3,452 | 2.2 | 7,929 | 5.2 | 2,302 | 1.5 |
| 2012 | 17,910 | 11.5 | 3,538 | 2.2 | 8,016 | 5.2 | 2,316 | 1.5 |
| 2013 | 18,241 | 11.5 | 3,472 | 2.2 | 7,910 | 5.1 | 2,432 | 1.5 |
| 2014 | 18,383 | 11.4 | 3,513 | 2.2 | 8,874 | 5.6 | 2,392 | 1.5 |
| 2015 | 18,910 | 11.6 | 3,407 | 2.1 | 9,134 | 5.8 | 2,543 | 1.6 |
| 2016 | 19,647 | 12.0 | 3,316 | 2.0 | 9,051 | 5.7 | 2,713 | 1.7 |
| 2017 | 20,615 | 12.4 | 3,295 | 2.0 | 10,175 | 6.4 | 2,697 | 1.6 |
| 2018 | 21,101 | 12.6 | 3,137 | 1.9 | 10,677 | 6.7 | 2,846 | 1.7 |
| 2019 | 20,725 | 12.3 | 3,046 | 1.8 | 10,592 | 6.6 | 2,893 | 1.7 |

NOTES: Suicides are identified using *International Classification of Diseases, 10th Revision* (ICD–10) underlying cause-of-death codes U03, X60–X84, and Y87.0. Means of suicide are identified using ICD–10 codes X72–X74 for firearm, X60–X69 for poisoning, and X70 for suffocation. "Other" includes: Cut or pierce; Drowning; Falls; Fire and flame; Other land transport; Struck by or against; Other specified, classifiable injury; Other specified, not elsewhere classified injury; and Unspecified injury, as classified by ICD–10. Age-adjusted death rates were calculated using the direct method and the 2000 standard population.

SOURCE: National Center for Health Statistics, National Vital Statistics System, Mortality.