|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Total |  | 3.3 | 3.3 | 3.4 | 3.4 | 3.3 | 3.3 | 3.4 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.3 | 4.3 | 4.4 | 4.9 | 5.3 | 5.5 | 5.6 |
| Age Groups\* | 25-34 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.1 | 1.4 | 1.3 |
|  | 35-44 | 2.9 | 3.1 | 3.1 | 3.0 | 3.0 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 | 3.1 | 2.9 | 3.0 | 3.5 | 3.8 | 4.1 | 4.1 |
|  | 45-54 | 4.7 | 4.8 | 5.5 | 5.2 | 5.1 | 5.7 | 5.6 | 5.8 | 6.5 | 6.6 | 7.2 | 7.6 | 8.2 | 8.1 | 8.2 | 8.4 | 9.3 | 9.3 | 9.2 |
|  | 55-64 | 5.4 | 6.0 | 5.1 | 5.4 | 5.4 | 5.6 | 5.5 | 5.8 | 5.9 | 6.1 | 6.7 | 6.9 | 7.6 | 7.6 | 7.9 | 9.4 | 10.1 | 10.5 | 10.9 |
|  | 65-74 | 4.3 | 4.5 | 4.7 | 4.8 | 4.4 | 4.4 | 4.8 | 4.1 | 4.3 | 4.5 | 4.3 | 4.6 | 4.2 | 5.0 | 4.8 | 5.0 | 5.5 | 6.2 | 6.2 |
|  | 75-84 | 3.4 | 2.5 | 2.8 | 3.1 | 2.7 | 2.4 | 2.7 | 3.0 | 2.5 | 2.7 | 2.8 | 2.6 | 2.7 | 2.8 | 2.5 | 2.8 | 3.1 | 3.1 | 3.1 |
|  | 85+ | 1.5 | 1.0 | 1.1 | 1.1 | 1.1 | 1.0 | 0.8 | 1.1 | 1.0 | 1.2 | 0.9 | 0.9 | 0.9 | 1.1 | 1.4 | 1.2 | 1.3 | 1.3 | 1.6 |
| Race/Ethnicity | White/Non-Hispanic  | 3.1 | 3.2 | 3.3 | 3.4 | 3.3 | 3.5 | 3.5 | 3.5 | 3.8 | 3.9 | 4.2 | 4.3 | 4.6 | 4.7 | 4.8 | 5.3 | 5.8 | 6.2 | 6.3 |
|  | Black/Non-Hispanic | 4.4 | 4.4 | 3.8 | 3.5 | 3.2 | 3.0 | 3.1 | 2.7 | 2.7 | 2.9 | 2.8 | 3.0 | 3.3 | 2.9 | 3.1 | 3.4 | 3.9 | 3.6 | 3.7 |
|  | Hispanic | 3.7 | 3.2 | 3.5 | 3.3 | 3.5 | 3.1 | 3.1 | 3.4 | 3.4 | 3.6 | 3.6 | 3.7 | 3.8 | 3.9 | 3.8 | 4.2 | 4.5 | 4.8 | 4.2 |
|  | American-Indian/Alaska Native | 17.5 | 16.9 | 16.4 | 17.3 | 17.6 | 15.9 | 15.5 | 17.4 | 17.9 | 21 | 19.4 | 19.5 | 20.3 | 21.6 | 21.7 | 24.9 | 24.7 | 24.9 | 24.5 |
| Urbanization | Urban | 3.3 | 3.4 | 3.4 | 3.4 | 3.3 | 3.3 | 3.4 | 3.4 | 3.6 | 3.6 | 3.8 | 4.0 | 4.3 | 4.3 | 4.4 | 4.8 | 5.2 | 5.4 | 5.4 |
|  | Rural | 3.2 | 3.1 | 3.3 | 3.2 | 3.2 | 3.7 | 3.7 | 3.7 | 3.9 | 4.2 | 4.1 | 4.5 | 4.8 | 4.9 | 4.8 | 5.4 | 6.0 | 6.5 | 6.5 |
| Census Region | Northeast | 2.4 | 2.2 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.0 | 2.5 | 2.4 | 2.4 | 2.6 | 2.7 | 3.0 | 3.1 | 3.1 | 3.2 | 3.7 | 3.8 |
|  | Midwest | 2.5 | 2.6 | 2.8 | 2.8 | 2.6 | 2.8 | 3.0 | 3.0 | 3.0 | 3.3 | 3.5 | 3.7 | 3.7 | 4.0 | 4.0 | 4.3 | 4.7 | 5.5 | 5.4 |
|  | South | 2.7 | 3.1 | 2.8 | 2.9 | 2.6 | 2.8 | 2.7 | 2.8 | 2.9 | 2.8 | 3.0 | 3.1 | 3.4 | 3.3 | 3.5 | 4.0 | 4.3 | 4.6 | 4.5 |
|  | West | 5.8 | 5.7 | 6.0 | 6.0 | 6.1 | 5.7 | 6.0 | 6.1 | 6.4 | 6.7 | 7.1 | 7.3 | 7.7 | 7.5 | 7.7 | 8.3 | 9.3 | 8.8 | 8.9 |

Supplemental Table 1. Yearly alcohol associated liver disease mortality rates among women in the United States, 1999-2017

Mortality rates are in deaths per 100,000 population; reported mortality rates are age adjusted for all sub-categories except for age groups

Supplemental Table 2. Yearly alcohol associated liver disease mortality rates among men in the United States, 1999-2017

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Total |  | 10.6 | 10.5 | 10.2 | 9.8 | 9.9 | 9.8 | 9.8 | 9.6 | 10.5 | 10.6 | 10.4 | 10.7 | 10.9 | 11.3 | 11.6 | 12.0 | 12.8 | 13.0 | 13.1 |
| Age Groups\* | 25-34 | 0.8 | 1.0 | 0.9 | 0.8 | 0.9 | 0.9 | 0.8 | 0.9 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.4 | 1.6 | 1.6 | 1.9 | 2.1 | 2.0 |
|  | 35-44 | 6.8 | 6.8 | 6.5 | 5.9 | 6.0 | 5.8 | 5.5 | 5.2 | 5.7 | 5.8 | 5.9 | 5.7 | 5.7 | 5.7 | 6.0 | 5.9 | 6.8 | 6.8 | 7.0 |
|  | 45-54 | 16.3 | 16.1 | 16.0 | 15.7 | 16.1 | 15.5 | 15.7 | 15.5 | 17.0 | 16.9 | 16.5 | 16.8 | 17.1 | 17.8 | 17.7 | 17.7 | 18.6 | 18.1 | 18.2 |
|  | 55-64 | 19.3 | 19.0 | 18.6 | 18.2 | 18.2 | 18.1 | 19.3 | 18.6 | 20.6 | 21.2 | 21.4 | 22.5 | 23.4 | 24.3 | 25.5 | 26.8 | 27.6 | 28.5 | 28.4 |
|  | 65-74 | 18.1 | 17.3 | 16.5 | 16.3 | 15.9 | 16.3 | 15.6 | 15.3 | 16.5 | 16.4 | 15.7 | 16.6 | 16.4 | 16.4 | 17.1 | 19.1 | 20.2 | 20.8 | 21.6 |
|  | 75-84 | 11.2 | 11.5 | 10.1 | 9.7 | 10.0 | 10.0 | 10.1 | 10.0 | 10.3 | 10.2 | 9.3 | 10.3 | 10.5 | 11.1 | 11.3 | 11.1 | 12.7 | 13.3 | 13.1 |
|  | 85+ | 6.1 | 5.3 | 5.7 | 5.0 | 3.9 | 5.0 | 4.7 | 5.2 | 5.3 | 5.0 | 5.5 | 5.1 | 5.0 | 4.8 | 5.3 | 5.6 | 5.9 | 7.1 | 7.0 |
| Race/Ethnicity | White/Non-Hispanic  | 9.5 | 9.5 | 9.1 | 9.0 | 9.2 | 9.2 | 9.2 | 9.1 | 10.0 | 10.3 | 10.1 | 10.5 | 10.6 | 11.2 | 11.5 | 11.9 | 12.8 | 12.9 | 13.2 |
|  | Black/Non-Hispanic | 12.6 | 11.0 | 10.9 | 9.0 | 9.4 | 8.6 | 8.3 | 7.0 | 8.4 | 7.7 | 7.1 | 7.2 | 7.4 | 7.5 | 7.5 | 7.7 | 7.9 | 8.3 | 8.3 |
|  | Hispanic | 20.9 | 22.3 | 21.1 | 19.1 | 18.2 | 17.2 | 17.8 | 17.8 | 19.0 | 17.5 | 17.8 | 18.1 | 18.3 | 17.5 | 17.8 | 18.8 | 19.5 | 19.9 | 19.0 |
|  | American-Indian/Alaska Native | 34.1 | 28.7 | 28.5 | 28.7 | 28.7 | 28.7 | 28.4 | 25.9 | 30.4 | 28.6 | 24.8 | 30.9 | 29.2 | 32.2 | 33.5 | 29.1 | 35.7 | 34.8 | 34.1 |
| Urbanization | Urban | 10.7 | 10.7 | 10.4 | 9.9 | 9.9 | 9.8 | 9.8 | 9.6 | 10.5 | 10.6 | 10.4 | 10.7 | 10.8 | 11.2 | 11.6 | 12.0 | 12.6 | 12.8 | 12.8 |
|  | Rural | 10.4 | 10.0 | 9.4 | 9.3 | 10.1 | 9.6 | 9.9 | 9.7 | 10.8 | 10.8 | 10.5 | 11.3 | 11.4 | 11.9 | 12.2 | 12.1 | 14.0 | 14.3 | 14.7 |
| Census Region | Northeast | 7.7 | 7.6 | 6.9 | 6.7 | 6.8 | 6.7 | 6.0 | 6.4 | 7.2 | 7.3 | 7.3 | 7.3 | 7.4 | 7.4 | 7.7 | 7.9 | 8.3 | 8.7 | 8.5 |
|  | Midwest | 8.5 | 8.0 | 8.1 | 7.6 | 7.8 | 7.9 | 8.2 | 7.9 | 8.5 | 8.9 | 8.7 | 9.2 | 9.1 | 9.7 | 10.1 | 10.3 | 10.9 | 11.6 | 11.7 |
|  | South | 10.1 | 10.0 | 9.6 | 9.2 | 9.0 | 8.9 | 8.9 | 8.7 | 9.3 | 9.0 | 8.7 | 9.4 | 9.3 | 9.9 | 10.0 | 10.8 | 11.3 | 11.9 | 12.2 |
|  | West | 16.6 | 16.7 | 16.3 | 16.0 | 16.2 | 15.8 | 16.2 | 15.6 | 17.4 | 17.6 | 17.4 | 17.4 | 18.0 | 18.2 | 18.9 | 18.9 | 20.4 | 19.4 | 19.5 |

Mortality rates are in deaths per 100,000 population; reported mortality rates are age adjusted for all sub-categories except for age groups