

# U.S.A. SUICIDE: 2016 OFFICIAL FINAL DATA

	Number	Per Day	Rate	% of Deaths	Group (Number of Suicides)	Rate
Nation	44,965	122.9	13.9	1.6	White Male (31,032)	24.8
Males	34,727	94.9	21.8	2.5	White Female (9,132)	7.2
Females	10,238	28.0	6.2	0.8	Nonwhite Male (3,695)	10.9
Whites	40,164	109.7	15.9	1.7	Nonwhite Female (1,106)	3.0
Nonwhites	4,801	13.1	6.8	1.1	Black/African American Male (2,206)	10.2
Blacks/African Americans	2,770	7.6	6.1	0.8	Black/African American Female (564)	2.4
Older Adults (65+ yrs.)	8,204	22.4	16.7	0.4	Hispanic/Latino (3,668)	6.4
Young (15-24 yrs.)	5,723	15.6	13.2	17.6	Native Americans/Alaska Natives (629)	13.6
Middle Aged (45-64 yrs.)	16,196	44.3	19.2	3.0	Asian/Pacific Islanders (1,402)	6.8

**Fatal Outcomes (Suicides): a small rate increase was seen from 2015 to 2016, continuing the recent rate increases after long-term trends of decline**

- Average of 1 person every 11.7 minutes killed themselves
- Average of 1 older adult every 1 hour and 4 minutes killed themselves
- Average of 1 young person every 1 hour and 32 minutes killed themselves. (If the 443 suicides below age 15 are included, 1 young person every 1 hour and 25 minutes)

• 10th ranking cause of death in U.S.— 2nd for **young**

• 3.4 male deaths by suicide for each female death by suicide

• Suicide ranks 10th as a cause of death; Homicide ranks 16th

### Leading Causes of Death 15-24 yrs

Cause	Number	Rate
All Causes	32,575	74.9
1-Accidents	13,895	31.9
2-Suicide	5,723	13.2
3-Homicide	5,172	11.9
10-14 yrs	436	2.1
15-19 yrs	2,117	10.0
20-24 yrs	3,606	16.1

**Nonfatal Outcomes (Attempt Survivors)** (figures are estimates):

- 1,124,125 annual attempts in U.S. (using 25:1 ratio); 2016 SAMHSA study: 1.3 million adults (18 and up)
- Translates to one attempt every 28 seconds (based on 1,124,125 attempts) [1.3 million = 1 every 24 seconds]
- 25 attempts for every death by suicide for nation (one estimate); 100-200:1 for young; 4:1 for older adults
- 3 female attempts for each male attempt

**Suicide Loss Survivors (those bereaved of suicide): †** (figures are estimates)

°Recent (Cerel, 2015) research-based estimate suggests that for each death by suicide → 147 people are *exposed* (6.6 million annually); among those, more than 6 experience a major life disruption (*loss survivors*); a low, non-research based estimate see Cerel et al. 2015)

• If each suicide has devastating effects and intimately affects > 6 other people, there are **over 269,000 loss survivors a**

**year**

- Based on the 8651,815 suicides from 1992 through 2016, therefore, the number of *survivors of suicide loss* in the U.S. is more than 5.2 million (1 of every 62 Americans in 2016); number grew by more than 269,790 in 2016
- If there is a suicide every 11.7 minutes, then there are more than 6 new loss survivors every 11.7 minutes as well

Suicide Methods	Number	Rate	Percent of Total		Number	Rate	Percent of Total
Firearm suicides (1st)	22,938	7.1	51.0%	All but Firearms	22,027	6.8	49.0%
Suffocation/Hanging (2nd)	11,642	3.6	25.9%	Poisoning (3rd)	6,698	2.1	14.9%
Cut/pierce (5th)	864	0.3	1.9%	Drowning (7th)	497	0.2	1.1%

U.S.A. Suicide Rates 2006-2016											15 Leading Causes of Death in the U.S.A., 2016				
Group/ Age	(Rates per 100,000 population)										Group/ Age	(total of 2,744,248 deaths; 849.3 rate)			
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		2016	Rank & Cause of Death	Rate	Deaths
5-14	0.5	0.5	0.6	0.7	0.7	0.7	0.8	1.0	1.0	1.0	1.1	5-14	1 Diseases of heart (heart disease)	196.6	635,260
15-24	9.9	9.7	10.0	10.1	10.5	11.0	11.1	11.1	11.6	12.5	13.2	15-24	2 Malignant neoplasms (cancer)	185.1	598,038
25-34	12.3	13.0	12.9	12.8	14.0	14.6	14.7	14.8	15.1	15.7	16.5	25-34	3 Accidents (unintentional injury)	49.9	161,374
35-44	15.1	15.6	15.9	16.1	16.0	16.2	16.7	16.2	16.6	17.1	17.4	35-44	4 Chronic lower respiratory diseases	47.8	154,596
45-54	17.2	17.7	18.7	19.3	19.6	19.8	20.0	19.7	20.2	20.3	19.7	45-54	5 Cerebrovascular diseases (stroke)	44.0	142,142
55-64	14.5	15.5	16.3	16.7	17.5	17.1	18.0	18.1	18.8	18.9	18.7	55-64	6 Alzheimer's disease	35.9	116,103
65-74	12.6	12.6	13.9	14.0	13.7	14.1	14.0	15.0	15.6	15.3	15.4	65-74	7 Diabetes mellitus (diabetes)	24.8	80,058
75-84	15.9	16.3	16.0	15.7	15.7	16.5	16.8	17.1	17.5	17.9	18.2	75-84	8 Influenza & pneumonia	16.0	51,537
85+	15.9	15.6	15.6	15.6	17.6	16.9	17.8	18.6	19.3	19.4	19.0	85+	9 Nephritis, nephrosis (kidney disease)	15.5	50,046
65+	14.2	14.3	14.8	14.8	14.9	15.3	15.4	16.1	16.6	16.6	16.7	65+	<b>10 Suicide [Intentional Self-Harm]</b>	<b>13.9</b>	<b>44,965</b>
Total	11.1	11.5	11.8	12.0	12.4	12.7	12.9	13.0	13.4	13.8	13.9	Total	11 Septicemia	12.6	40,613
Men	17.8	18.3	19.0	19.2	20.0	20.2	20.6	21.1	21.5	21.8	21.8	Men	12 Chronic liver disease and cirrhosis	12.6	40,545
Women	4.6	4.8	4.9	5.0	5.2	5.4	5.5	5.7	6.0	6.3	6.2	Women	13 Essential hypertension and renal disease	10.3	33,246
White	12.4	12.9	13.3	13.5	14.1	14.5	14.8	14.9	15.4	15.8	15.9	White	14 Parkinson's disease	9.2	29,697
Nonwh	5.5	5.6	5.7	5.8	5.8	5.8	6.1	6.0	6.0	6.3	6.8	NonWh	15 Pneumonitis due to solids and liquids	6.1	19,715
Black	4.9	4.9	5.2	5.1	5.1	5.3	5.5	5.4	5.5	5.6	6.1	Black	- All other causes (Residual; > 15)	169.1	546,313
45-64	16.0	16.7	17.5	18.0	18.6	18.6	19.1	19.0	19.5	19.6	19.2	45-64	Homicide (ranks 16th)	6.0	19,362

- Older adults made up 15.2% of 2016 population but 18.2% of suicides • Young were 13.5% of 2016 population and 12.7% of suicides • Middle Aged were 26.1% of the 2016 population but were 36.0% of suicides •

1,290,986\* Years of Potential Life Lost Before Age 75 (41,164 of 44,965 suicides are below age 75)

\* alternate YPLL figure: 1,289,181 using individual years in calculations rather than 10-year age groups as above.

Many figures appearing here are derived or calculated from data in the following *official data sources*: downloaded 22 and 23 December 2017 from CDC's website: <https://wonder.cdc.gov>. Some figures were derived or calculated from data at the CDC's WONDER site.

SAMHSA 2016 study (2017): Center for Behavioral Health Statistics and Quality. (2017). *Key substance use and mental health indicators in the United States: Results from the 2016 National Survey on Drug Use and Health* (HHS Pub. No. SMA 17-5044, NSDUH Series H-52). Substance Abuse and Mental Health Services Administration, Rockville, MD. Retrieved 23 Dec 2017 from <https://www.samhsa.gov/data/sites/default/files/NSDUH-FFR1-2016/NSDUH-FFR1-2016.pdf>

Cerel, J. (2015, April 18). *We are all connected in suicidology: The continuum of "survivorship."* Plenary presentation at the 48<sup>th</sup> annual conference of the American Association of Suicidology, Atlanta GA. [data from Cerel, Brown, Maple, Bush, van de Venne, Moore, & Flaherty, in progress; personal communication 20 Dec 2015]

† Cerel, J., McIntosh, J. L., Neimeyer, R. A., Maple, M., & Marshall, D. (2014). The continuum of "survivorship": Definitional issues in the aftermath of suicide. *Suicide & Life-Threatening Behavior*, 44(6), 591-600.

suicide rate = (number of suicides by group / population of group) X 100,000  
Prepared for AAS by Christopher W. Drapeau, Ph.D., & John L. McIntosh, Ph.D.

**Suicide Data Page: 2016**  
24 December 2017

# Rate, Number, and Ranking of Suicide for Each U.S.A. State\*, 2016

Rank	State [Division / Region]	Deaths	Rate	Division [Abbreviation]	Rate	Number
1	Alaska [P / West]	193	26.0	Mountain [M]	20.7	4,942
2	Montana [M / West]	267	25.6	East South Central [ESC]	16.0	3,038
3	Wyoming [M / West]	144	24.6	West North Central [WNC]	16.0	3,392
4	New Mexico [M / West]	471	22.6	South Atlantic [SA]	14.1	9,013
5	Nevada [M / West]	650	22.1	West South Central [WSC]	14.1	5,542
5	Colorado [M / West]	1,168	22.1	<b>Nation</b>	<b>13.9</b>	<b>44,965</b>
7	Oklahoma [WSC / South]	822	21.0	East North Central [ENC]	13.7	6,386
8	Idaho [M / West]	351	20.9	Pacific [P]	12.5	6,574
9	Utah [M / West]	620	20.3	New England [NE]	11.8	1,742
10	West Virginia [SA / South]	362	19.8	Middle Atlantic [MA]	10.5	4,336
11	Oregon [P / West]	772	18.9			
11	Vermont [NE / Northeast]	118	18.9	<u>Region [Subdivision Abbreviations]</u>	<u>Rate</u>	<u>Number</u>
13	South Dakota [WNC / Midwest]	163	18.8	West (M, P)	15.0	11,516
14	Missouri [WNC / Midwest]	1,133	18.6	Midwest (WNC, ENC)	14.4	9,778
14	Arkansas [WSC / South]	555	18.6	South (ESC, WSC, SA)	14.4	17,593
16	North Dakota [WNC / Midwest]	140	18.5	<b>Nation</b>	<b>13.9</b>	<b>44,965</b>
17	Arizona [M / West]	1,271	18.3	Northeast (NE, MA)	10.8	6,078
17	New Hampshire [NE / Northeast]	244	18.3			
19	Kansas [WNC / Midwest]	514	17.7			
20	Kentucky [ESC / South]	756	17.0			
20	Maine [NE / Northeast]	226	17.0			
22	Tennessee [ESC / South]	1,111	16.7			
23	South Carolina [SA / South]	815	16.4			
24	Alabama [ESC / South]	788	16.2			
25	Washington [P / West]	1,141	15.7			
26	Indiana [ENC / Midwest]	1,034	15.6			
27	Pennsylvania [MA / Northeast]	1,970	15.4			
28	Florida [SA / South]	3,143	15.2			
29	Wisconsin [ENC / Midwest]	866	15.0			
30	Ohio [ENC / Midwest]	1,707	14.7			
31	Louisiana [WSC / South]	677	14.5			
32	Iowa [WNC / Midwest]	451	14.4			
	<b>Nation</b>	<b>44,965</b>	<b>13.9</b>			
33	Virginia [SA / South]	1,166	13.9			
34	Georgia [SA / South]	1,409	13.7			
34	Michigan [ENC / Midwest]	1,364	13.7			
36	North Carolina [SA / South]	1,373	13.5			
36	Minnesota [WNC / Midwest]	745	13.5			
38	Nebraska [WNC / Midwest]	246	12.9			
39	Mississippi [ESC / South]	383	12.8			
40	Texas [WSC / South]	3,488	12.5			
40	Delaware [SA / South]	119	12.5			
42	Hawaii [P / West]	174	12.2			
43	Rhode Island [NE / Northeast]	126	11.9			
44	Illinois [ENC / Midwest]	1,415	11.1			
44	Connecticut [NE / Northeast]	397	11.1			
46	California [P / West]	4,294	10.9			
47	Maryland [SA / South]	586	9.7			
48	Massachusetts [NE / Northeast]	631	9.3			
49	New York [MA / Northeast]	1,679	8.5			
50	New Jersey [MA / Northeast]	687	7.7			
51	District of Columbia [SA / South]	40	5.9			

**Source:** Obtained 23 December 2017 from CDC/NCHS's *WONDER* (to appear in *Deaths: Final Data for 2016*, forthcoming)  
<http://www.cdc.gov/nchs/products/nvsr.htm>

[data are by place of residence]  
 [Suicide = ICD-10 Codes X60-X84, Y87.0, U03]

Note: All rates are per 100,000 population.

\* Including the District of Columbia.

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**Suicide State Data Page: 2016**  
**24 December 2017**  
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*“to understand and prevent suicide  
as a means of promoting human well-being”*

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 Visit the AAS website at:

**<http://www.suicidology.org>**

For other suicide data, and an archive of state data, visit the website below and click on the dropdown “Suicide Stats” menu:

<http://pages.iu.edu/~jmcintos/>

*Caution: Annual fluctuations in state levels combined with often relatively small populations can make these data highly variable. The use of several years' data is preferable to conclusions based on single years alone.*

Suggested citation: Drapeau, C. W., & McIntosh, J. L. (for the American Association of Suicidology). (2017). *U.S.A. suicide 2016: Official final data*. Washington, DC: American Association of Suicidology, dated December 24, 2017, downloaded from <http://www.suicidology.org>.