

American Association of Suicidology Statistics

National Statistical Information

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American Association of Suicidology (AAS)

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AAS Statistics



School-Based [©]

Guide

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Developed by...

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Rate, Number, and Ranking of Suicide for Each U.S.A. State*, 2002

Rank-	State [Region] ('01 rank)	Rate	Number
1	Wyoming (04)	21.1	105
2	Alaska (06)	20.5	132
3	Montana (02)	20.2	184
4	Nevada (03)	19.5	423
5	New Mexico (01)	18.8	349
6	Arizona (10T)	16.2	886
7	Colorado (05)	16.1	727
8	West Virginia (07T)	15.3	276
9	Idaho (07T)	15.1	202
10	Vermont (26T)	14.9	92
11	Oregon (10T)	14.7	518
11	Utah (13T)	14.7	340
13	North Dakota (20T)	14.4	91
14	Oklahoma (09)	14.3	501
15	Florida (13T)	14.0	2,338
16	Arkansas (12)	13.9	377
17	Tennessee (20T)	13.4	778
17	Washington (24)	13.4	811
19	Kentucky (22)	13.2	540
20	Maine (19)	12.8	166
21	Kansas (36)	12.7	345
22	South Dakota (15)	12.4	94
23	Missouri (18)	12.2	693
24	Indiana (26T)	12.1	743
25	Mississippi (28T)	11.9	343
25	North Carolina (23)	11.9	986
27	Nebraska (35)	11.6	201
28	Alabama (28T)	11.5	514
28	Wisconsin (25)	11.5	627
30	Ohio (37)	11.3	1,287
31	Louisiana (34)	11.1	499
	United States	11.0	31,655
32	Michigan (38)	11.0	1,106
32	Virginia (31T)	11.0	799
34	Pennsylvania (39T)	10.9	1,341
35	Iowa (39T)	10.7	314
35	South Carolina (28T)	10.7	440
37	Georgia (31T)	10.6	909
37	Texas (39T)	10.6	2,311
39	New Hampshire (17)	10.4	132
40	Minnesota (42)	9.9	497
41	Hawaii (31T)	9.6	120
42	California (46T)	9.2	3,228
42	Delaware (16)	9.2	74
44	Illinois (43)	9.1	1,145
45	Maryland (44)	8.7	477
46	Rhode Island (45)	8.0	86
47	Connecticut (46T)	7.5	260
48	Massachusetts (50)	6.8	436
49	New Jersey (49)	6.4	553
49	New York (51)	6.4	1,228
51	District of Columbia (48)	5.4	31

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.

Region [Abbreviation]	Rate	Number
Mountain [M]	16.9	3,216
East South Central [ESC]	12.6	2,175
South Atlantic [SA]	11.8	6,330
West North Central [WNC]	11.5	2,235
West South Central [WSC]	11.4	3,688
Nation	11.0	31,655
East North Central [ENC]	10.7	4,908
Pacific [P]	10.3	4,809
New England [NE]	8.3	1,172
Middle Atlantic [MA]	7.8	3,122

Source: Kochanek, K.D., Murphy, S.L., Anderson, R.N., & Scott, C. (2004). Deaths: Final data for 2002. *National Vital Statistics Reports*, 53(5). Hyattsville, MD: National Center for Health Statistics. DHHS Publication No. (PHS) 2005-1120. (p. 92, Table 29).
[data are by place of residence]
[Suicide = ICD-10 Codes X60-X84, Y87.0]

Note: All rates are per 100,000 population.

* Including the District of Columbia.

Suicide State Data Page: 2002
16 October 2004

Prepared by John L. McIntosh, Ph.D. for



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U.S.A. SUICIDE: 2002 OFFICIAL FINAL DATA

	Number	Per Day	Rate	% of Deaths	Group (Number of Sui.)	Rate
Nation.....	31,655	86.7	11.0	1.3	White Male (23,049).....	19.9
Males.....	25,409	69.6	17.9	2.1	White Female (5,682).....	4.8
Females.....	6,246	17.1	4.3	0.5	Nonwhite Male (2,360).....	9.2
Whites.....	28,731	78.7	12.2	1.4	Nonwhite Female (564).....	2.0
Nonwhites.....	2,924	8.0	5.5	0.9	Black Male (1,633).....	9.1
Blacks.....	1,939	5.3	5.1	0.7	Black Female (306).....	1.5
Elderly (65+ yrs.).....	5,548	15.2	15.6	0.3	Hispanic (1,954).....	5.0
Young (15-24 yrs.).....	4,010	11.0	9.9	12.1

Completions:

suicide rate increased slightly in both 2002 and 2001 after declines for six consecutive years and a steady 2000 rate

- Average of 1 person every 16.6 minutes killed themselves.
- Average of 1 old person every 1 hour 34.7 minutes killed themselves.
- Average of 1 young person every 2 hours 11 minutes killed themselves. (If the 264 suicides below age 15 are included, 1 young person every 2 hours 3 minutes)
 - 11th ranking cause of death in U.S. | 3rd ranking cause for **young** ----->
- 4.1 male deaths by suicide for each female death by suicide.
- Suicide ranks 11th as a cause of death; Homicide ranks 14th

Cause	Number	Rate
All Causes	33,046	81.4
1-Accidents	15,412	38.0
2-Homicide	5,219	12.9
3-Suicide	4,010	9.9

Attempts (figures are estimates; no official U.S. national data are compiled):

- 790,000 annual attempts in U.S. (using 25:1 ratio)
- 25 attempts for every death by suicide for nation. 100-200:1 for young; 4:1 for elderly.
- 5 million living Americans (estimate) have attempted to kill themselves.
- 3 female attempts for each male attempt.

Survivors (i.e., family members and friends of a loved one who died by suicide):

- *Each suicide intimately affects at least 6 other people.* (estimate- Shneidman, 1969, *On the Nature of Suicide*)
- Based on the over 745,000 suicides from 1978 through 2002, estimated that the number of survivors of suicides in the U.S. is 4.47 million(1 of every 64 Americans in 2002); number grew by nearly 190,000 in 2002.
- If there is a suicide every 16.6 minutes, then there are 6 new survivors every 16.6 minutes as well.

<u>Suicide Methods</u>	<u>Number</u>	<u>Rate</u>	<u>Percent of Total</u>		<u>Number</u>	<u>Rate</u>	<u>Percent of Total</u>
Firearm suicides	17,108	5.9	54.0%	All but Firearms	14,547	5.1	46.0%
Suffocation/Hanging	6,462	2.2	20.4%	Poisoning	5,486	1.9	17.3%
Falls	740	0.3	2.3%	Cut/pierce	566	0.2	1.8%
Drowning	368	0.1	1.2%	Fire/flame	150	0.1	0.5%

U.S.A. Suicide Rates 1993-2002											15 Leading Causes of Death in the U.S.A., 2002			
(Rates per 100,000 population)											(total of 2,443,387 deaths; 847.3 rate)			
Group/ Age	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Group/ Age	Rank & Cause of Death	Rate	Deaths
5-14	0.9	0.9	0.9	0.8	0.8	0.8	0.6	0.8	0.7	0.6	5-14	1 Diseases of heart (heart disease)	241.7	696,947
15-24	13.5	13.8	13.3	12.0	11.4	11.1	10.3	10.4	9.9	9.9	15-24	2 Malignant neoplasms (cancer)	193.2	557,271
25-34	15.1	15.4	15.4	14.5	14.3	13.8	13.5	12.8	12.8	12.6	25-34	3 Cerebrovascular diseases (stroke)	56.4	162,672
35-44	15.1	15.3	15.2	15.5	15.3	15.4	14.4	14.6	14.7	15.3	35-44	4 Chronic lower respiratory diseases	43.3	124,816
45-54	14.5	14.4	14.6	14.9	14.7	14.8	14.2	14.6	15.2	15.7	45-54	5 Accidents (unintentional injuries)	37.0	106,742
55-64	14.6	13.4	13.3	13.7	13.5	13.1	12.4	12.3	13.1	13.6	55-64	6 Diabetes mellitus (diabetes)	25.4	73,249
65-74	16.3	15.3	15.8	15.0	14.4	14.1	13.6	12.6	13.3	13.5	65-74	7 Influenza & pneumonia	22.8	65,681
75-84	22.3	21.3	20.7	20.0	19.3	19.7	18.3	17.7	17.4	17.7	75-84	8 Alzheimer's disease	20.4	58,866
85+	22.8	23.0	21.6	20.2	20.8	21.0	19.2	19.4	17.5	18.0	85+	9 Nephritis, nephrosis (kidney disease)	14.2	40,974
65+	19.0	18.1	18.1	17.3	16.8	16.9	15.9	15.3	15.3	15.6	65+	10 Septicemia	11.7	33,865
Total	12.1	12.0	11.9	11.6	11.4	11.3	10.7	10.7	10.8	11.0	Total	11 Suicide [Intentional Self-Harm]	11.0	31,655
Men	19.9	19.8	19.8	19.3	18.7	18.6	17.6	17.5	17.6	17.9	Men	12 Chronic liver disease and cirrhosis	9.5	27,257
Women	4.6	4.5	4.4	4.4	4.4	4.4	4.1	4.1	4.1	4.3	Women	13 Essential hypertension and renal disease	7.0	20,261
White	13.1	12.9	12.9	12.7	12.4	12.4	11.7	11.7	11.9	12.2	White	14 Homicide [Assault]	6.1	17,638
Nonwh	7.1	7.2	6.9	6.7	6.5	6.2	6.0	5.9	5.6	5.5	NonWh	15 Pneumonitis due to solids and liquids	6.1	17,593
Black	7.0	7.0	6.7	6.5	6.2	5.7	5.6	5.6	5.3	5.1	Black	- All other causes (Residual)	141.5	407,900

Old made up 12.3% of 2002 population but represented 17.5% of the suicides.

Young were 14.1% of 2002 population and comprised 12.7% of the suicides.

Official data source: Kochanek, K.D., Murphy, S.L., Anderson, R.N., & Scott, C. (2004). Deaths: Final data for 2002. *National Vital Statistics Reports*, 53(5). Hyattsville, MD: National Center for Health Statistics. DHHS Publication No. (PHS) 2005-1120

Population figures source: Table I, p. 108, of the National Center for Health Statistics (Kochanek et al., 2004) publication above.

$$\text{suicide rate} = \frac{\text{number of suicides by group}}{\text{population of group}} \times 100,000$$

Suicide Data Page: 2002
16 October 2004
Prepared for AAS by John L. McIntosh, Ph.D.

Rate, Number, and Ranking of Suicide for Each U.S.A. State*, 2001

Rank-	State [Region] ('00 rank)	Rate	Number	Region [Abbreviation]	Rate	Number
01	New Mexico [M] (03)	19.8	362	Mountain [M]	16.2	3,027
02	Montana [M] (04)	19.3	175	South Atlantic [SA]	12.1	6,398
03	Nevada [M] (02)	18.4	387	East South Central [ESC]	11.9	2,046
04	Wyoming [M] (05)	16.8	83	West South Central [WSC]	11.3	3,615
05	Colorado [M] (07T)	16.3	722	West North Central [WNC]	11.2	2,173
06	Alaska [P] (01)	16.1	102	Nation	10.8	30,622
07	Idaho [M] (16T)	15.9	210	East North Central [ENC]	10.5	4,763
07	West Virginia [SA] (11T)	15.9	286	Pacific [P]	9.3	4,286
09	Oklahoma [WSC] (09)	14.8	515	New England [NE]	8.5	1,197
10	Arizona [M] (06)	14.5	767	Middle Atlantic [MA]	7.8	3,117
10	Oregon [P] (07T)	14.5	505			
12	Arkansas [WSC] (13)	14.2	382			
13	Florida [SA] (11T)	14.1	2,314			
13	Utah [M] (10)	14.1	321			
15	South Dakota [WNC] (18T)	13.8	105			
16	Delaware [SA] (32T)	13.6	108			
17	New Hampshire [NE] (32T)	13.3	167			
18	Missouri [WNC] (20)	12.9	725			
19	Maine [NE] (23T)	12.5	161			
20	North Dakota [WNC] (32T)	12.4	79			
20	Tennessee [ESC] (15)	12.4	711			
22	Kentucky [ESC] (16T)	12.2	495			
23	North Carolina [SA] (21T)	12.1	997			
24	Washington [P] (21T)	11.9	712			
25	Wisconsin [ENC] (30)	11.8	639			
26	Indiana [ENC] (27)	11.7	715			
26	Vermont [NE] (18T)	11.7	72			
28	Alabama [ESC] (14)	11.5	512			
28	Mississippi [ESC] (37)	11.5	328			
28	South Carolina [SA] (28T)	11.5	467			
31	Georgia [SA] (35T)	11.1	935			
31	Hawaii [P] (25T)	11.1	136			
31	Virginia [SA] (31)	11.1	797			
34	Louisiana [WSC] (35T)	11.0	493			
35	Nebraska [WNC] (25T)	10.9	187			
36	Kansas [WNC] (23T)	10.8	293			
	U.S.A. TOTAL	10.8	30,622			
37	Ohio [ENC] (41)	10.7	1,219			
38	Michigan [ENC] (40)	10.5	1,051			
39	Iowa [WNC] (39)	10.4	304			
39	Pennsylvania [MA] (28T)	10.4	1,276			
39	Texas [WSC] (38)	10.4	2,225			
42	Minnesota [WNC] (43T)	9.6	480			
43	Illinois [ENC] (46)	9.1	1,139			
44	Maryland [SA] (43T)	8.4	454			
45	Rhode Island [NE] (47)	8.3	88			
46	California [P] (45)	8.2	2,831			
46	Connecticut [NE] (42)	8.2	283			
48	District of Columbia [SA] (51)	7.0	40			
49	New Jersey [MA] (48)	6.9	588			
50	Massachusetts [NE] (49T)	6.7	426			
51	New York [MA] (49T)	6.6	1,253			

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.

2001

Source: Arias, E., Anderson, R.N., Kung, H.C., Murphy, S.L., & Kochanek, K.D. (2003). Deaths: Final data for 2001. *National Vital Statistics Reports*, 52(3). Hyattsville, MD: National Center for Health Statistics. [Data to be published in the CD-ROM entitled *Vital Statistics of the United States, Mortality, 2001*.] (p. 91, Table 30). [data are by place of residence] [Suicide = ICD-10 Codes X60-X84, Y87.0]

Note: All rates are per 100,000 population.

* Including the District of Columbia.

Suicide State Data Page: 2001
26 September 2003

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U.S.A. SUICIDE: 2001 OFFICIAL FINAL DATA

	Number	Per Day	Rate	% of Deaths	Group (Number of Sui.)	Rate
Nation	30,622	83.9	10.8	1.3	White Male (22,328)	19.5
Males	24,672	67.6	17.6	2.1	White Female (5,382)	4.6
Females.....	5,950	16.3	4.1	0.5	Nonwhite Male (2,344)	9.3
Whites.....	27,710	75.9	11.9	1.3	Nonwhite Female (568)	2.1
Nonwhites.....	2,912	8.0	5.6	0.9	Black Male (1,627)	9.2
Blacks.....	1,957	5.4	5.3	0.7	Black Female (330)	1.7
Elderly (65+ yrs.)	5,393	14.8	15.3	0.3	Hispanic (1850)	5.0
Young (15-24 yrs.).....	3,971	10.9	9.9	12.3		

Completions: *suicide rate increased slightly in 2001 (from 2000) after declines for six consecutive years and a steady 2000 rate*

- Average of 1 person every 17.2 minutes killed themselves.
- Average of 1 old person every 1 hour 37.5 minutes killed themselves.
- Average of 1 young person every 2 hours 12.4 minutes killed themselves. (If the 279 suicides below age 15 are included, 1 young person every 2 hours 3.7 minutes)

	Cause	Number	Rate
• 11th ranking cause of death in U.S.— 3rd for young	All Causes	32,252	80.7
• 4.1 male deaths by suicide for each female death by suicide.	1-Accidents	14,411	36.1
• Suicide ranks 11th as a cause of death; Homicide ranks 13th	2-Homicide	5,297	13.3
	3-Suicide	3,971	9.9

Attempts (figures are estimates; no official U.S. national data are compiled):

- 765,000 annual attempts in U.S. (using 25:1 ratio)
- 25 attempts for every death by suicide for nation. 100-200:1 for young; 4:1 for elderly.
- 5 million living Americans (estimate) have attempted to kill themselves.
- 3 female attempts for each male attempt.

Survivors (i.e., family members and friends of a loved one who died by suicide):

- Each suicide intimately affects at least 6 other people. (estimate)
- Based on the over 742,000 suicides from 1977 through 2001, estimated that the number of survivors of suicides in the U.S. is 4.45 million (1 of every 64 Americans in 2001); number grew by nearly 184,000 in 2001.
- If there is a suicide every 17 minutes, then there are 6 new survivors every 17 minutes as well.

<u>Suicide Methods</u>	<u>Number</u>	<u>Rate</u>	<u>Percent of Total</u>		<u>Number</u>	<u>Rate</u>	<u>Percent of Total</u>
Firearm suicides	16,869	5.9	55.1%	All Other	13,753	4.8	44.9%
Suffocation/Hanging	6,198	2.2	20.2%	Poisoning	5,191	1.8	17.0%
Falls	651	0.2	2.1%	Cut/pierce	458	0.2	1.5%
Drowning	339	0.1	1.1%	Fire/flame	147	0.1	0.5%

U.S.A. Suicide Rates 1990-2001												15 Leading Causes of Death in the U.S.A., 2001			
(Rates per 100,000 population)												(total of 2,416,425 deaths; 848.5 rate)			
Group/ Age	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Rank & Cause of Death	Rate	Deaths
5-14	0.8	0.7	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.6	0.8	0.7	1 Diseases of heart (heart disease)	245.8	700,142
15-24	13.2	13.1	13.0	13.5	13.8	13.3	12.0	11.4	11.1	10.3	10.4	9.9	2 Malignant neoplasms (cancer)	194.4	553,768
25-34	15.2	15.2	14.5	15.1	15.4	15.4	14.5	14.3	13.8	13.5	12.8	12.8	3 Cerebrovascular diseases (stroke)	57.4	163,538
35-44	15.3	14.7	15.1	15.1	15.3	15.2	15.5	15.3	15.4	14.4	14.6	14.7	4 Chronic lower respiratory diseases	43.2	123,013
45-54	14.8	15.5	14.7	14.5	14.4	14.6	14.9	14.7	14.8	14.2	14.6	15.2	5 Accidents (unintentional injuries)	35.7	101,537
55-64	16.0	15.4	14.8	14.6	13.4	13.3	13.7	13.5	13.1	12.4	12.3	13.1	6 Diabetes mellitus (diabetes)	25.1	71,372
65-74	17.9	16.9	16.5	16.3	15.3	15.8	15.0	14.4	14.1	13.6	12.6	13.3	7 Influenza & pneumonia	21.8	62,034
75-84	24.9	23.5	22.8	22.3	21.3	20.7	20.0	19.3	19.7	18.3	17.7	17.4	8 Alzheimer's disease	18.9	53,852
85+	22.2	24.0	21.9	22.8	23.0	21.6	20.2	20.8	21.0	19.2	19.4	17.5	9 Nephritis, nephrosis (kidney disease)	13.9	39,480
65+	20.5	19.7	19.1	19.0	18.1	18.1	17.3	16.8	16.9	15.9	15.3	15.3	10 Septicemia	11.3	32,238
Total	12.4	12.2	12.0	12.1	12.0	11.9	11.6	11.4	11.3	10.7	10.7	10.8	11 Suicide [Intentional Self-Harm]	10.8	30,622
Men	20.4	20.1	19.6	19.9	19.8	19.8	19.3	18.7	18.6	17.6	17.5	17.6	12 Chronic liver disease and cirrhosis	9.5	27,035
Women	4.8	4.7	4.6	4.6	4.5	4.4	4.4	4.4	4.4	4.1	4.1	4.1	13 Homicide [Assault]	7.1	20,308
White	13.5	13.3	13.0	13.1	12.9	12.9	12.7	12.4	12.4	11.7	11.7	11.9	14 Essential hypertension and renal disease	6.8	19,250
Nonwh	7.0	6.8	6.8	7.1	7.2	6.9	6.7	6.5	6.2	6.0	5.9	5.6	15 Pneumonitis due to solids and liquids	6.1	17,301
Black	6.9	6.7	6.8	7.0	7.0	6.7	6.5	6.2	5.7	5.6	5.6	5.3	- All other causes (Residual)	140.8	400,935

Old made up 12.4% of 2001 population but represented 17.6% of the suicides.

Young were 14.0% of 2001 population and comprised 13.0% of the suicides.

Official data source: Arias, E., Anderson, R.N., Kung, H.C., Murphy, S.L., & Kochanek, K.D. (2003). Deaths: Final data for 2001. *National Vital Statistics Reports*, 52(3). Hyattsville, MD: National Center for Health Statistics. DHHS Publication No. (PHS) 2003-1120. [Data to be published in the CD-ROM annual volume entitled *Vital Statistics of the United States, Mortality, 2001*.]
Population figures source: Table I, p. 106, of the National Center for Health Statistics (Arias et al., 2003) publication above.

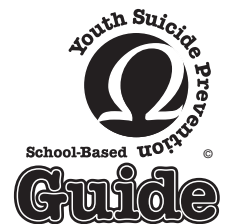
$$\text{suicide rate} = \frac{\text{number of suicides by group}}{\text{population of group}} \times 100,000$$

Suicide Data Page: 2001

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Prepared for AAS by John L. McIntosh, Ph.D.

Notes



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