


# Opioid Overdose Deaths by Sex



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Timeframe: 2019

## TABLE

Location	Male	Female	Total
<b>United States</b>	<b>34,635</b>	<b>15,225</b>	<b>49,860</b>
Alabama	262	152	414
Alaska	61	22	83
Arizona	920	370	1,290
Arkansas	120	78	198
California	2,361	874	3,235
Colorado	402	231	633
Connecticut	830	270	1,100
Delaware	276	111	387
District of Columbia	179	64	243
Florida	2,645	1,126	3,771
Georgia	570	292	862
Hawaii	36	19	55
Idaho	71	62	133
Illinois	1,589	630	2,219
Indiana	828	426	1,254

Iowa	108	53	161
Kansas	111	73	184
Kentucky	668	368	1,036
Louisiana	377	181	558
Maine	230	93	323
Maryland	1,525	579	2,104
Massachusetts	1,477	492	1,969
Michigan	1,219	570	1,789
Minnesota	285	143	428

## **NOTES**



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### **Notes**

The National Vital Statistics System multiple cause-of-death mortality files were used to identify drug overdose deaths. Drug overdose deaths were classified using the International Classification of Disease, Tenth Revision (ICD-10), based on the ICD-10 underlying cause-of-death codes X40–44 (unintentional), X60–64 (suicide), X85 (homicide), or Y10–Y14 (undetermined intent). Among the deaths with drug overdose as the underlying cause, the type of opioid involved is indicated by the following ICD-10 multiple cause-of-death codes: opioids (T40.0, T40.1, T40.2, T40.3, T40.4, or T40.6); natural and semisynthetic opioids (T40.2); methadone (T40.3); synthetic opioids, other than methadone (T40.4); and heroin (T40.1).

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Deaths from illegally-made fentanyl cannot be distinguished from pharmaceutical fentanyl in the data source. For this reason, deaths from both legally prescribed and illegally produced fentanyl are included in these data.

Rates presented in this data table represent age-adjusted rates per 100,000 population.

**Sources**

KFF analysis of Centers for Disease Control and Prevention (CDC), National Center for Health Statistics. Multiple Cause of Death 1999-2019 on CDC WONDER Online Database, released 2021. Data are from the Multiple Cause of Death Files, 1999-2019, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at <http://wonder.cdc.gov/mcd-icd10.html> (<http://wonder.cdc.gov/mcd-icd10.html>) on February 26, 2021.

**Definitions**

**NSD:** Not sufficient data. Data suppressed to ensure confidentiality.

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**Data Brief 362. Increase in Suicide Mortality in the United States, 1999–2018**

**Data table for Figure 1. Age-adjusted suicide rates, by sex: United States, 1999–2018**

Year	Total		Male		Female	
	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000	Number of deaths	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

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 U.S. standard population.

SOURCE: NCHS, National Vital Statistics System, Mortality (NVSS-M).

**Data table for Figure 2. Suicide rates for females, by age group: United States, 1999–2018**

Year	10–14		15–24		25–44		45–64		65–74		75 and over	
	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000	Number of deaths	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

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

SOURCE: NCHS, National Vital Statistics System, Mortality (NVSS-M).

**Data table for Figure 3. Suicide rates for males, by age group: United States, 1999–2018**

Year	10–14		15–24		25–44		45–64		65–74		75 and over	
	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000	Number of deaths	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

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

SOURCE: NCHS, National Vital Statistics System, Mortality (NVSS-M).

**Data Brief 362. Increase in Suicide Mortality in the United States, 1999–2018**

**Data table for Figure 4. Age-adjusted suicide rates, by sex and urbanicity of county of residence: United States, 2018**

Urbanicity of county of residence	Female		Male	
	Number of deaths	Deaths per 100,000	Number of deaths	Deaths per 100,000
Total	10,583	6.2	37,761	22.8
Urban				
Large central	2,701	5.1	9,277	18.3
Large fringe	2,555	5.9	8,473	20.5
Medium	2,428	6.8	8,434	24.5
Small	1,094	7.3	4,279	28.3
Rural				
Micropolitan	1,070	7.9	4,267	30.6
Noncore	735	8.2	3,031	31.0

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 U.S. standard population. Counties were classified using the 2013 National Center for Health Statistics Urban-Rural Classification Scheme for Counties available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_166.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_166.pdf).

SOURCE: NCHS, National Vital Statistics System, Mortality (NVSS-M).