

**Supplementary Table. Overall age-adjusted\* rate of suicide† by state and by gender—National Vital Statistics System, United States, 2018 and 2019**

State	2018			2019			Absolute change§	Relative change¶
	No. of deaths	Age adjusted rate (95% CI)		No. of deaths	Age adjusted rate (95% CI)			
Alabama	823	16.5	(15.4-17.7)	804	16.3	(15.1-17.4)	-0.2	-1.2
Alaska	184	24.6	(20.9-28.2)	210	28.5	(24.6-32.5)	3.9	15.9
Arizona	1,438	19.2	(18.2-20.2)	1,419	18.7	(17.7-19.7)	-0.5	-2.6
Arkansas	554	18.3	(16.8-19.9)	548	18.0	(16.4-19.5)	-0.3	-1.6
California	4,491	10.9	(10.5-11.2)	4,436	10.7	(10.4-11.0)	-0.2	-1.8
Colorado	1,282	21.9	(20.7-23.1)	1,312	22.1	(20.9-23.3)	0.2	0.9
Connecticut	419	10.6	(9.5-11.6)	435	11.4	(10.3-12.5)	0.8	7.5
Delaware	113	11.4	(9.2-13.5)	111	11.3	(9.1-13.5)	-0.1	-0.9
District of Columbia	54	7.6	(5.6-9.9)	44	6.2	(4.5-8.4)	-1.4	-18.4
Florida	3,567	15.2	(14.6-15.7)	3,465	14.5	(14.0-15.0)	-0.7	-4.6
Georgia	1,569	14.6	(13.8-15.3)	1,585	14.6	(13.9-15.4)	0.0	0.0
<b>Hawaii**</b>	176	11.9	(10.1-13.7)	224	15.5	(13.5-17.6)	3.6	30.3
<b>Idaho**</b>	417	23.9	(21.6-26.2)	365	20.4	(18.3-22.5)	-3.5	-14.6
Illinois	1,488	11.3	(10.7-11.9)	1,439	10.9	(10.3-11.4)	-0.4	-3.5
<b>Indiana**</b>	1,079	16.0	(15.0-16.9)	972	14.2	(13.3-15.1)	-1.8	-11.3
Iowa	490	15.5	(14.1-16.9)	528	16.7	(15.2-18.2)	1.2	7.7
Kansas	556	19.3	(17.6-20.9)	523	18.2	(16.6-19.8)	-1.1	-5.7
Kentucky	800	17.5	(16.2-18.7)	756	16.5	(15.3-17.7)	-1.0	-5.7
Louisiana	720	15.1	(14.0-16.3)	704	15.0	(13.9-16.2)	-0.1	-0.7
Maine	270	18.5	(16.1-20.8)	276	19.4	(17.0-21.9)	0.9	4.9
Maryland	650	10.2	(9.4-11.0)	657	10.3	(9.5-11.1)	0.1	1.0
<b>Massachusetts**</b>	740	9.9	(9.2-10.7)	647	8.7	(8.0-9.4)	-1.2	-12.1
Michigan	1,548	15.1	(14.3-15.8)	1,472	14.3	(13.5-15.0)	-0.8	-5.3
Minnesota	739	13.1	(12.2-14.1)	830	14.4	(13.4-15.4)	1.3	9.9
Mississippi	421	13.8	(12.4-15.1)	436	14.4	(13.0-15.8)	0.6	4.3
Missouri	1,230	19.5	(18.4-20.6)	1,141	18.2	(17.1-19.3)	-1.3	-6.7
Montana	265	24.9	(21.8-28.0)	289	26.2	(23.0-29.3)	1.3	5.2
<b>Nebraska**</b>	271	13.4	(11.7-15.0)	309	16.1	(14.3-18.0)	2.7	20.1
Nevada	657	20.8	(19.2-22.4)	642	19.8	(18.2-21.3)	-1.0	-4.8
New Hampshire	279	19.4	(17.0-21.8)	255	17.5	(15.3-19.8)	-1.9	-9.8
New Jersey	778	8.3	(7.7-8.9)	762	8.0	(7.4-8.6)	-0.3	-3.6
New Mexico	536	25.0	(22.8-27.1)	513	24.0	(21.9-26.2)	-1.0	-4.0
New York	1,723	8.3	(7.9-8.7)	1,705	8.3	(7.9-8.7)	0.0	0.0
<b>North Carolina**</b>	1,494	13.7	(13.0-14.5)	1,358	12.5	(11.9-13.2)	-1.2	-8.8
North Dakota	147	19.2	(16.0-22.4)	136	18.1	(15.0-21.3)	-1.1	-5.7
Ohio	1,838	15.3	(14.5-16.0)	1,806	15.1	(14.4-15.9)	-0.2	-1.3
Oklahoma	790	20.0	(18.6-21.4)	816	20.5	(19.0-21.9)	0.5	2.5
Oregon	844	19.0	(17.7-20.3)	906	20.4	(19.0-21.7)	1.4	7.4
Pennsylvania	2,014	14.9	(14.2-15.5)	1,896	14.1	(13.4-14.7)	-0.8	-5.4
Rhode Island	106	9.5	(7.7-11.4)	123	10.7	(8.7-12.6)	1.2	12.6

South Carolina	811	15.5	(14.4-16.5)	852	16.2	(15.1-17.3)	0.7	4.5
South Dakota	167	19.3	(16.3-22.3)	182	20.9	(17.8-24.1)	1.6	8.3
Tennessee	1,161	16.6	(15.6-17.6)	1,219	17.2	(16.2-18.2)	0.6	3.6
Texas	3,930	13.7	(13.2-14.1)	3,891	13.4	(13.0-13.8)	-0.3	-2.2
Utah	665	22.2	(20.5-23.9)	654	21.2	(19.6-22.9)	-1.0	-4.5
Vermont	125	18.8	(15.3-22.3)	110	16.0	(12.8-19.2)	-2.8	-14.9
<b>Virginia**</b>	1,243	14.0	(13.2-14.8)	1,140	12.8	(12.1-13.6)	-1.2	-8.6
Washington	1,252	15.9	(15.0-16.8)	1,263	15.9	(15.0-16.8)	0.0	0.0
West Virginia	395	21.2	(19.1-23.4)	330	18.5	(16.4-20.6)	-2.7	-12.7
Wisconsin	888	14.8	(13.8-15.8)	845	14.0	(13.0-15.0)	-0.8	-5.4
Wyoming	147	25.2	(21.0-29.4)	170	29.3	(24.8-33.9)	4.1	16.3

<b>Female</b>	<b>2018</b>			<b>2019</b>				
<b>State</b>	<b>No. of deaths</b>	<b>Age adjusted rate (95% CI)</b>		<b>No. of deaths</b>	<b>Age adjusted rate (95% CI)</b>		<b>Absolute change<sup>§</sup></b>	<b>Relative change<sup>¶</sup></b>
Alabama	181	7.3	(6.2-8.3)	174	6.9	(5.8-7.9)	-0.4	-5.5
Alaska	40	11.4	(8.1-15.6)	42	11.8	(8.4-16.1)	0.4	3.5
Arizona	289	7.7	(6.8-8.7)	314	8.3	(7.3-9.2)	0.6	7.8
Arkansas	119	8.0	(6.6-9.5)	106	7.1	(5.7-8.5)	-0.9	-11.3
California	1,005	4.8	(4.5-5.2)	953	4.5	(4.2-4.8)	-0.3	-6.3
Colorado	300	10.4	(9.2-11.6)	310	10.5	(9.3-11.7)	0.1	1.0
Connecticut	106	5.1	(4.1-6.2)	104	5.3	(4.3-6.4)	0.2	3.9
Delaware	20	4.0	(2.4-6.3)	31	6.5	(4.4-9.4)	2.5	62.5
District of Columbia	14	--	--	15	--	--	--	--
Florida	768	6.5	(6.0-7.0)	799	6.7	(6.2-7.2)	0.2	3.1
Georgia	352	6.3	(5.6-7.0)	342	6.2	(5.5-6.9)	-0.1	-1.6
Hawaii	40	4.9	(3.5-6.8)	42	5.6	(4.0-7.6)	0.7	14.3
Idaho	92	10.7	(8.6-13.2)	80	9.1	(7.1-11.4)	-1.6	-15.0
Illinois	326	5.0	(4.4-5.6)	328	4.9	(4.4-5.5)	-0.1	-2.0
<b>Indiana**</b>	251	7.4	(6.5-8.4)	177	5.2	(4.4-6.0)	-2.2	-29.7
Iowa	87	5.7	(4.5-7.1)	97	6.4	(5.2-7.9)	0.7	12.3
Kansas	118	8.2	(6.7-9.8)	107	7.7	(6.2-9.1)	-0.5	-6.1
Kentucky	140	6.2	(5.2-7.3)	160	7.4	(6.2-8.5)	1.2	19.4
Louisiana	161	6.6	(5.5-7.6)	140	5.8	(4.8-6.8)	-0.8	-12.1
Maine	52	7.1	(5.2-9.5)	50	7.3	(5.3-9.7)	0.2	2.8
Maryland	165	4.9	(4.2-5.7)	130	4.0	(3.3-4.7)	-0.9	-18.4
Massachusetts	181	4.7	(4.0-5.4)	158	4.2	(3.5-4.9)	-0.5	-10.6
Michigan	314	6.1	(5.4-6.8)	303	5.9	(5.2-6.6)	-0.2	-3.3
<b>Minnesota**</b>	135	4.8	(4.0-5.7)	192	6.7	(5.7-7.7)	1.9	39.6
Mississippi	79	5.0	(4.0-6.3)	80	5.1	(4.0-6.4)	0.1	2.0
<b>Missouri**</b>	269	8.5	(7.4-9.5)	212	6.7	(5.7-7.6)	-1.8	-21.2
Montana	58	11.8	(8.9-15.4)	79	14.2	(11.1-17.9)	2.4	20.3
Nebraska	47	4.8	(3.5-6.4)	61	6.6	(5.0-8.5)	1.8	37.5
Nevada	165	10.5	(8.9-12.2)	136	8.5	(7.0-9.9)	-2.0	-19.0
New Hampshire	56	8.1	(6.0-10.7)	49	6.8	(4.9-9.0)	-1.3	-16.0

New Jersey	186	3.9	(3.4-4.5)	192	3.9	(3.3-4.5)	0.0	0.0
New Mexico	133	12.4	(10.2-14.5)	116	11.0	(9.0-13.1)	-1.4	-11.3
New York	379	3.6	(3.2-4.0)	386	3.7	(3.3-4.1)	0.1	2.8
North Carolina	328	5.9	(5.3-6.6)	306	5.5	(4.9-6.2)	-0.4	-6.8
North Dakota	36	10.3	(7.1-14.4)	23	6.9	(4.3-10.5)	-3.4	-33.0
Ohio	388	6.3	(5.7-7.0)	352	5.9	(5.3-6.6)	-0.4	-6.3
Oklahoma	168	8.5	(7.2-9.8)	161	8.1	(6.8-9.4)	-0.4	-4.7
Oregon	212	9.5	(8.2-10.8)	223	9.9	(8.6-11.3)	0.4	4.2
Pennsylvania	424	6.4	(5.7-7.0)	400	6.1	(5.5-6.7)	-0.3	-4.7
Rhode Island	24	4.1	(2.6-6.3)	34	5.6	(3.8-7.9)	1.5	36.6
South Carolina	170	6.2	(5.2-7.1)	166	6.0	(5.0-6.9)	-0.2	-3.2
South Dakota	43	10.3	(7.4-13.9)	32	7.5	(5.0-10.7)	-2.8	-27.2
Tennessee	275	7.6	(6.7-8.5)	278	7.8	(6.9-8.8)	0.2	2.6
Texas	821	5.7	(5.3-6.1)	854	5.8	(5.4-6.2)	0.1	1.8
Utah	149	10.0	(8.3-11.6)	141	9.3	(7.8-10.9)	-0.7	-7.0
Vermont	23	6.6	(4.1-10.1)	25	7.6	(4.8-11.5)	1.0	15.2
Virginia	294	6.4	(5.7-7.2)	255	5.7	(5.0-6.4)	-0.7	-10.9
<b>Washington**</b>	316	8.1	(7.2-9.0)	266	6.7	(5.9-7.6)	-1.4	-17.3
West Virginia	79	8.6	(6.7-10.8)	74	8.6	(6.7-10.9)	0.0	0.0
Wisconsin	166	5.6	(4.7-6.5)	177	6.1	(5.2-7.0)	0.5	8.9
Wyoming	39	14.1	(9.9-19.5)	23	7.8	(4.8-11.9)	-6.3	-44.7

<b>Male</b>	<b>2018</b>			<b>2019</b>				
<b>State</b>	<b>No. of deaths</b>	<b>Age adjusted rate (95% CI)</b>		<b>No. of deaths</b>	<b>Age adjusted rate (95% CI)</b>		<b>Absolute change<sup>§</sup></b>	<b>Relative change<sup>¶</sup></b>
Alabama	642	26.8	(24.7-29.0)	630	26.7	(24.5-28.8)	-0.1	-0.4
Alaska	144	36.8	(30.5-43.0)	168	43.6	(36.8-50.4)	6.8	18.5
Arizona	1,149	31.0	(29.2-32.9)	1,105	29.4	(27.6-31.1)	-1.6	-5.2
Arkansas	435	29.2	(26.4-32.0)	442	29.4	(26.6-32.2)	0.2	0.7
California	3,486	17.3	(16.7-17.9)	3,483	17.1	(16.6-17.7)	-0.2	-1.2
Colorado	982	33.4	(31.2-35.5)	1,002	33.6	(31.4-35.7)	0.2	0.6
Connecticut	313	16.5	(14.6-18.4)	331	17.8	(15.8-19.7)	1.3	7.9
Delaware	93	19.1	(15.3-23.5)	80	16.5	(13.0-20.7)	-2.6	-13.6
District of Columbia	40	12.0	(8.5-16.4)	29	8.6	(5.7-12.4)	-3.4	-28.3
<b>Florida**</b>	2,799	24.4	(23.5-25.3)	2,666	22.9	(22.0-23.8)	-1.5	-6.1
Georgia	1,217	23.7	(22.4-25.1)	1,243	24.1	(22.7-25.4)	0.4	1.7
<b>Hawaii**</b>	136	18.8	(15.6-22.1)	182	25.4	(21.6-29.1)	6.6	35.1
Idaho	325	37.2	(33.1-41.3)	285	32.0	(28.2-35.7)	-5.2	-14.0
Illinois	1,162	18.1	(17.0-19.2)	1,111	17.2	(16.2-18.3)	-0.9	-5.0
Indiana	828	24.9	(23.1-26.6)	795	23.8	(22.1-25.5)	-1.1	-4.4
Iowa	403	25.5	(22.9-28.0)	431	27.2	(24.6-29.8)	1.7	6.7
Kansas	438	30.4	(27.5-33.3)	416	29.0	(26.1-31.8)	-1.4	-4.6
<b>Kentucky**</b>	660	29.4	(27.1-31.7)	596	26.3	(24.1-28.4)	-3.1	-10.5
Louisiana	559	24.6	(22.5-26.6)	564	24.9	(22.8-27.0)	0.3	1.2
Maine	218	30.5	(26.3-34.8)	226	32.3	(27.9-36.8)	1.8	5.9

Maryland	485	16.1	(14.6-17.5)	527	17.4	(15.8-18.9)	1.3	8.1
<b>Massachusetts**</b>	559	15.7	(14.4-17.0)	489	13.5	(12.2-14.7)	-2.2	-14.0
Michigan	1,234	24.5	(23.1-25.9)	1,169	23.1	(21.7-24.4)	-1.4	-5.7
Minnesota	604	21.5	(19.8-23.2)	638	22.2	(20.4-23.9)	0.7	3.3
Mississippi	342	23.3	(20.8-25.8)	356	24.7	(22.1-27.3)	1.4	6.0
Missouri	961	31.3	(29.2-33.3)	929	30.4	(28.4-32.5)	-0.9	-2.9
Montana	207	37.8	(32.5-43.1)	210	38.2	(32.8-43.5)	0.4	1.1
Nebraska	224	22.1	(19.2-25.1)	248	25.8	(22.5-29.1)	3.7	16.7
Nevada	492	31.3	(28.5-34.1)	506	31.3	(28.5-34.1)	0.0	0.0
New Hampshire	223	31.1	(26.8-35.3)	206	28.6	(24.5-32.6)	-2.5	-8.0
New Jersey	592	13.0	(11.9-14.1)	570	12.5	(11.5-13.6)	-0.5	-3.8
New Mexico	403	37.9	(34.1-41.7)	397	37.4	(33.6-41.2)	-0.5	-1.3
New York	1,344	13.4	(12.7-14.2)	1,319	13.3	(12.5-14.0)	-0.1	-0.7
<b>North Carolina**</b>	1,166	22.3	(21.0-23.6)	1,052	20.2	(18.9-21.4)	-2.1	-9.4
North Dakota	111	27.5	(22.3-32.8)	113	28.7	(23.3-34.1)	1.2	4.4
Ohio	1,450	24.8	(23.5-26.1)	1,454	25.0	(23.6-26.3)	0.2	0.8
Oklahoma	622	31.9	(29.3-34.4)	655	33.4	(30.8-36.0)	1.5	4.7
Oregon	632	29.0	(26.7-31.4)	683	31.2	(28.8-33.6)	2.2	7.6
Pennsylvania	1,590	23.9	(22.7-25.1)	1,496	22.6	(21.4-23.8)	-1.3	-5.4
Rhode Island	82	15.5	(12.2-19.4)	89	16.1	(12.9-19.9)	0.6	3.9
South Carolina	641	25.5	(23.5-27.5)	686	27.2	(25.1-29.3)	1.7	6.7
South Dakota	124	28.3	(23.2-33.3)	150	34.0	(28.4-39.6)	5.7	20.1
Tennessee	886	26.4	(24.6-28.2)	941	27.5	(25.7-29.3)	1.1	4.2
Texas	3,109	22.2	(21.4-22.9)	3,037	21.4	(20.6-22.2)	-0.8	-3.6
Utah	516	34.4	(31.4-37.4)	513	33.1	(30.2-36.0)	-1.3	-3.8
Vermont	102	31.4	(25.0-37.7)	85	24.8	(19.6-31.0)	-6.6	-21.0
Virginia	949	22.0	(20.6-23.4)	885	20.4	(19.1-21.8)	-1.6	-7.3
Washington	936	24.1	(22.5-25.6)	997	25.3	(23.7-26.9)	1.2	5.0
<b>West Virginia**</b>	316	34.2	(30.3-38.1)	256	28.7	(25.0-32.3)	-5.5	-16.1
Wisconsin	722	24.1	(22.3-25.9)	668	22.1	(20.4-23.8)	-2.0	-8.3
<b>Wyoming**</b>	108	36.1	(29.1-43.0)	147	50.4	(42.0-58.7)	14.3	39.6

Abbreviation CI=Confidence Interval

\*Age-adjusted death rates were calculated using the direct method and the 2000 U.S. standard population.

†Suicide deaths were identified using International Classification of Diseases, 10th Revision (ICD–10) underlying cause-of-death codes U03, X60–X84, and Y87.0.

§Absolute rate change is the difference between 2018 and 2019 rates.

\*Relative rate change is the (2019 rate-2018 rate)/2018 rate multiplied by 100.

\*\*p≤.05 for difference between 2018 and 2019. Z-tests were used if the number of deaths was ≥100 in both 2018 and 2019; non-overlapping confidence intervals based on the gamma method were used if the number of deaths was <100 in 2018 or 2019.