

Comparability of Race-specific Mortality Data Based on 1977 Versus 1997 Reporting Standards

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[Bridged-race categories are consistent with 1977 Office of Management and Budget (OMB) standards; single-race categories are consistent with 1997 OMB standards. Race and Hispanic origin are reported separately on death certificates. Hispanic persons may be of any race. Data for specified categories other than non-Hispanic white and non-Hispanic black should be interpreted with caution because of inconsistencies between reporting these items on death certificates and on censuses and surveys; see Technical Notes in report]

Race and Hispanic origin and sex	All ages	Age group (years)					Age not stated
		0-14	15-24	25-44	45-64	65 and over	
Bridged-race deaths ¹							
All races and origins	2,839,205	30,747	30,154	139,224	539,673	2,099,263	144
Male	1,458,469	17,392	22,008	92,240	329,303	997,417	109
Female	1,380,736	13,355	8,146	46,984	210,370	1,101,846	35
Non-Hispanic:							
White	2,188,349	13,706	15,929	84,173	372,938	1,701,556	47
Male	1,111,840	7,801	11,236	55,233	228,172	809,364	34
Female	1,076,509	5,905	4,693	28,940	144,766	892,192	13
Black	343,393	8,652	7,005	28,473	96,249	203,001	13
Male	178,904	4,894	5,380	18,567	56,270	93,782	11
Female	164,489	3,758	1,625	9,906	39,979	109,219	2
American Indian or Alaska Native ²	19,491	442	526	2,634	5,885	10,004	0
Male	10,875	250	389	1,730	3,551	4,955	0
Female	8,616	192	137	904	2,334	5,049	0
Asian or Pacific Islander ³	75,266	1,299	888	3,832	13,610	55,633	4
Male	38,760	726	621	2,456	8,244	26,709	4
Female	36,506	573	267	1,376	5,366	28,924	0
Hispanic	204,719	6,398	5,740	19,741	48,664	124,164	12
Male	113,045	3,564	4,333	14,016	31,394	59,730	8
Female	91,674	2,834	1,407	5,725	17,270	64,434	4
Origin not stated	7,987	250	66	371	2,327	4,905	68
Male	5,045	157	49	238	1,672	2,877	52
Female	2,942	93	17	133	655	2,028	16
Single-race deaths ⁴							
All races and origins	2,839,205	30,747	30,154	139,224	539,673	2,099,263	144
Male	1,458,469	17,392	22,008	92,240	329,303	997,417	109
Female	1,380,736	13,355	8,146	46,984	210,370	1,101,846	35
Non-Hispanic:							
White	2,182,552	13,231	15,692	83,513	371,566	1,698,503	47
Male	1,108,848	7,523	11,084	54,822	227,411	807,974	34
Female	1,073,704	5,708	4,608	28,691	144,155	890,529	13
Black	341,408	8,337	6,823	28,096	95,849	202,290	13
Male	177,958	4,729	5,260	18,364	56,070	93,524	11
Female	163,450	3,608	1,563	9,732	39,779	108,766	2
American Indian or Alaska Native ²	17,790	384	469	2,455	5,424	9,058	0
Male	9,678	203	344	1,586	3,217	4,328	0
Female	8,112	181	125	869	2,207	4,730	0
Asian or Pacific Islander ⁵	72,045	1,149	807	3,492	12,741	53,852	4
Male	36,875	635	557	2,229	7,687	25,763	4
Female	35,170	514	250	1,263	5,054	28,089	0
Asian	68,768	1,044	728	3,152	11,671	52,169	4
Male	35,089	576	497	2,008	7,063	24,941	4
Female	33,679	468	231	1,144	4,608	27,228	0
Native Hawaiian or Other Pacific Islander	3,277	105	79	340	1,070	1,683	0
Male	1,786	59	60	221	624	822	0
Female	1,491	46	19	119	446	861	0
Two or more races	12,704	998	557	1,556	3,102	6,491	0
Male	7,020	581	381	985	1,852	3,221	0
Female	5,684	417	176	571	1,250	3,270	0
Hispanic	204,719	6,398	5,740	19,741	48,664	124,164	12
Male	113,045	3,564	4,333	14,016	31,394	59,730	8
Female	91,674	2,834	1,407	5,725	17,270	64,434	4

Table I-1. Number of bridged-race deaths and single-race deaths, and ratio of single-race to bridged-race deaths, by special age groups, race and Hispanic origin, and sex: United States, 2018—Con.

[Bridged-race categories are consistent with 1977 Office of Management and Budget (OMB) standards; single-race categories are consistent with 1997 OMB standards. Race and Hispanic origin are reported separately on death certificates. Hispanic persons may be of any race. Data for specified categories other than non-Hispanic white and non-Hispanic black should be interpreted with caution because of inconsistencies between reporting these items on death certificates and on censuses and surveys; see Technical Notes in report]

Race and Hispanic origin and sex	All ages	Age group (years)					Age not stated
		0-14	15-24	25-44	45-64	65 and over	
Single-race deaths ⁴ —Con.							
Origin not stated	7,987	250	66	371	2,327	4,905	68
Female	5,045	157	49	238	1,672	2,877	52
Male	2,942	93	17	133	655	2,028	16
Ratio of single-race to bridged-race deaths							
All races and origins	1.000	1.000	1.000	1.000	1.000	1.000	...
Male	1.000	1.000	1.000	1.000	1.000	1.000	...
Female	1.000	1.000	1.000	1.000	1.000	1.000	...
Non-Hispanic:							
White	†0.997	†0.965	0.985	0.992	0.996	0.998	...
Male	†0.997	†0.964	0.986	0.993	0.997	0.998	...
Female	0.997	0.967	0.982	0.991	0.996	0.998	...
Black	†0.994	†0.964	0.974	0.987	0.996	0.996	...
Male	0.995	0.966	0.978	0.989	0.996	0.997	...
Female	0.994	0.960	0.962	0.982	0.995	0.996	...
American Indian or Alaska Native ²	†0.913	†0.869	0.892	†0.932	†0.922	†0.905	...
Male	†0.890	†0.812	0.884	†0.917	†0.906	†0.873	...
Female	†0.942	0.943	0.912	0.961	0.946	†0.937	...
Asian or Pacific Islander ³	†0.957	†0.885	†0.909	†0.911	†0.936	†0.968	...
Male	†0.951	†0.875	0.897	†0.908	†0.932	†0.965	...
Female	†0.963	0.897	0.936	†0.918	†0.942	†0.971	...
Hispanic	1.000	1.000	1.000	1.000	1.000	1.000	...
Male	1.000	1.000	1.000	1.000	1.000	1.000	...
Female	1.000	1.000	1.000	1.000	1.000	1.000	...

... Category not applicable.

† Difference between numbers is statistically significant at $p < 0.05$.

¹Multiple-race data reported according to 1997 OMB standards were bridged to single-race categories of 1977 OMB standards.

²Includes Aleut and Eskimo persons.

³Includes Chinese, Filipino, Hawaiian, Japanese, and other Asian or Pacific Islander persons.

⁴Data reported according to 1997 OMB standards. For race-specific categories, only one race was reported on the death certificate. For the "Two or more races" category, multiple races were reported on the death certificate, and various multiple-race combinations were aggregated to create this category.

⁵Includes the Asian and Native Hawaiian or Other Pacific Islander categories; replicates the bridged-race Asian or Pacific Islander category for comparison purposes.

SOURCE: National Center for Health Statistics, National Vital Statistics System, Mortality.

Table I-2. Age-specific death rates based on bridged-race versus single-race deaths and population estimates, and ratio of single-race to bridged-race rates, by special age groups, race and Hispanic origin, and sex: United States, 2018

[Rates are per 100,000 population in specified group. Bridged-race categories are consistent with 1977 Office of Management and Budget (OMB) standards; single-race categories are consistent with 1997 OMB standards. Race and Hispanic origin are reported separately on death certificates. Hispanic persons may be of any race. Data for specified categories other than non-Hispanic white and non-Hispanic black should be interpreted with caution because of inconsistencies between reporting these items on death certificates and on censuses and surveys; see Technical Notes in report]

Race and Hispanic origin and sex	All ages ¹	Age group (years)				
		0-14	15-24	25-44	45-64	65 and over
Based on bridged-race deaths and population estimates ²						
All races and origins ³	867.8	50.5	70.2	160.1	643.2	4,003.8
Male	905.2	55.9	100.1	210.6	804.4	4,279.5
Female	831.6	44.8	38.8	108.8	489.6	3,783.2
Non-Hispanic:						
White	1,088.4	43.2	67.7	170.5	664.9	4,217.1
Male	1,121.4	48.0	93.0	221.3	825.1	4,446.3
Female	1,056.2	38.2	40.9	118.5	509.2	4,028.6
Black	799.8	93.5	107.8	235.8	938.0	4,190.7
Male	869.6	104.1	163.1	316.7	1,184.5	4,790.0
Female	735.6	82.5	50.7	159.5	725.5	3,784.1
American Indian or Alaska Native ⁴	709.8	73.2	125.5	350.2	900.1	3,161.2
Male	807.7	81.6	183.1	461.4	1,141.1	3,502.0
Female	615.6	64.5	66.2	239.7	681.2	2,885.6
Asian or Pacific Islander ⁵	366.3	36.1	33.0	56.6	272.9	2,222.5
Male	394.4	39.6	45.8	75.6	357.9	2,465.3
Female	340.5	32.5	20.0	39.1	199.9	2,037.3
Hispanic	341.9	40.7	58.5	109.6	408.4	2,810.4
Male	373.9	44.5	86.2	149.8	530.3	3,109.4
Female	309.3	36.8	29.4	66.1	288.0	2,580.3
Based on single-race deaths and population estimates ⁶						
All races and origins ³	867.8	50.5	70.2	160.1	643.2	4,003.8
Male	905.2	55.9	100.1	210.6	804.4	4,279.5
Female	831.6	44.8	38.8	108.8	489.6	3,783.2
Non-Hispanic:						
White	1,104.8	43.6	68.6	171.9	668.3	4,233.1
Male	1,138.2	48.3	94.4	223.1	829.3	4,463.9
Female	1,072.3	38.6	41.4	119.5	511.6	4,043.4
Black	834.7	99.8	112.7	241.2	951.4	4,240.1
Male	909.8	111.7	171.4	324.3	1,201.4	4,852.0
Female	765.9	87.6	52.4	162.6	735.6	3,825.3
American Indian or Alaska Native ⁴	735.9	75.2	129.3	367.4	921.6	3,156.3
Male	813.5	78.2	186.4	472.9	1,143.9	3,357.0
Female	660.8	72.0	70.1	261.2	718.2	2,992.6
Asian or Pacific Islander ⁷	373.0	35.9	32.6	54.3	266.3	2,219.6
Male	400.2	38.9	44.7	72.3	348.6	2,458.5
Female	348.2	32.8	20.3	37.8	195.9	2,038.0
Asian	367.2	33.9	30.5	50.5	250.9	2,201.8
Male	393.4	36.7	41.3	67.3	330.1	2,442.0
Female	343.3	31.0	19.5	35.2	183.4	2,019.8
Native Hawaiian or Other Pacific Islander	558.9	85.4	93.2	179.9	805.7	2,963.3
Male	605.4	94.4	137.9	227.6	955.6	3,095.8
Female	511.8	76.2	46.0	129.5	660.6	2,847.0
Two or more races	178.6	36.4	40.0	94.8	330.7	1,603.4
Male	199.9	41.6	54.1	125.1	418.2	1,777.4
Female	157.8	31.1	25.6	66.9	252.5	1,462.3
Hispanic	341.9	40.7	58.5	109.6	408.4	2,810.4
Male	373.9	44.5	86.2	149.8	530.3	3,109.4
Female	309.3	36.8	29.4	66.1	288.0	2,580.3

Table I-2. Age-specific death rates based on bridged-race versus single-race deaths and population estimates, and ratio of single-race to bridged-race rates, by special age groups, race and Hispanic origin, and sex: United States, 2018—Con.

[Rates are per 100,000 population in specified group. Bridged-race categories are consistent with 1977 Office of Management and Budget (OMB) standards; single-race categories are consistent with 1997 OMB standards. Race and Hispanic origin are reported separately on death certificates. Hispanic persons may be of any race. Data for specified categories other than non-Hispanic white and non-Hispanic black should be interpreted with caution because of inconsistencies between reporting these items on death certificates and on censuses and surveys; see Technical Notes in report]

Race and Hispanic origin and sex	All ages ¹	Age group (years)				
		0–14	15–24	25–44	45–64	65 and over
Ratio of single-race to bridged-race rates						
All races and origins	1.000	1.000	1.000	1.000	1.000	1.000
Male	1.000	1.000	1.000	1.000	1.000	1.000
Female	1.000	1.000	1.000	1.000	1.000	1.000
Non-Hispanic:						
White	†1.015	1.009	1.013	1.008	†1.005	†1.004
Male	†1.015	1.006	1.015	1.008	1.005	†1.004
Female	†1.015	1.010	1.012	1.008	1.005	†1.004
Black	†1.044	†1.067	†1.045	†1.023	†1.014	†1.012
Male	†1.046	†1.073	†1.051	†1.024	†1.014	†1.013
Female	†1.041	†1.062	1.034	1.019	1.014	†1.011
American Indian or Alaska Native ⁴	†1.037	1.027	1.030	1.049	1.024	0.998
Male	1.007	0.958	1.018	1.025	1.002	†0.959
Female	†1.073	1.116	1.059	1.090	1.054	1.037
Asian or Pacific Islander ⁷	†1.018	0.994	0.988	0.959	†0.976	0.999
Male	†1.015	0.982	0.976	0.956	0.974	0.997
Female	†1.023	1.009	1.015	0.967	0.980	1.000
Hispanic	1.000	1.000	1.000	1.000	1.000	1.000
Male	1.000	1.000	1.000	1.000	1.000	1.000
Female	1.000	1.000	1.000	1.000	1.000	1.000

† Difference between rates is statistically significant at $p < 0.05$.

¹Deaths for which age was not stated are included in "All ages" but not distributed among age groups.

²Multiple-race data reported according to 1997 OMB standards were bridged to single-race categories of 1977 OMB standards.

³Includes deaths for origin not stated or not classifiable.

⁴Includes Aleut and Eskimo persons.

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Table I-3. Percent difference in crude and age-adjusted death rates between males and females and selected racial and ethnic groups, based on bridged-race versus single-race data: United States, 2018

[Based on rates from report Table 2. Bridged-race categories are consistent with 1977 Office of Management and Budget (OMB) standards; single-race categories are consistent with 1997 OMB standards. Race and Hispanic origin are reported separately on death certificates. Hispanic persons may be of any race. Data for specified categories other than non-Hispanic white and non-Hispanic black should be interpreted with caution because of inconsistencies between reporting these items on death certificates and on censuses and surveys; see Technical Notes in report]

Race and Hispanic origin and sex	All ages ¹	Age group (years)											Age-adjusted rate
		Under 1 ²	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	
Percent difference based on bridged-race deaths and population estimates ³													
Male to female:													
Non-Hispanic white	†6.2	†22.3	†33.3	†33.3	†127.4	†110.0	†72.8	†58.6	†65.2	†51.8	†34.4	†12.7	†37.9
Non-Hispanic black	†18.2	†23.6	†38.7	†23.2	†221.7	†135.3	†79.1	†61.2	†66.3	†65.9	†46.0	†13.5	†49.8
Non-Hispanic American Indian or Alaska Native ⁴	†31.2	†31.8	†93.4	-13.0	†176.6	†104.9	†84.5	†68.0	†69.2	†46.9	†29.4	8.4	†46.1
Non-Hispanic Asian or Pacific Islander ⁵	†15.8	†20.5	†40.4	11.2	†129.0	†117.5	†82.5	†80.8	†80.8	†66.2	†39.0	†13.2	†40.7
Hispanic	†20.9	†20.7	†28.9	†14.1	†193.2	†156.4	†108.4	†90.9	†84.3	†62.6	†42.5	†11.1	†46.7
Non-Hispanic black to non-Hispanic white:													
Total	†-26.5	†131.7	†80.1	†72.4	†59.2	†35.4	†44.1	†43.1	†47.5	†38.5	†11.8	†-15.4	†17.9
Male	†-22.5	†132.9	†83.3	†67.1	†75.4	†41.6	†48.3	†46.1	†50.2	†47.0	†18.9	†-14.4	†24.1
Female	†-30.4	†130.5	†76.2	†81.0	†24.0	†26.4	†43.2	†43.7	†49.2	†34.6	†9.5	†-15.0	†14.2
Non-Hispanic American Indian or Alaska Native ⁴ to non-Hispanic white:													
Total	†-34.8	†52.3	†91.0	†110.6	†85.4	†111.7	†106.0	†66.5	†25.6	†9.8	†-8.0	†-39.7	†4.7
Male	†-28.0	†57.3	†119.4	†72.1	†96.9	†110.7	†112.2	†71.5	†28.1	†8.8	†-9.5	†-41.2	†7.2
Female	†-41.7	†46.0	51.3	†163.8	†61.9	†116.0	†98.7	†61.9	†25.0	†12.4	†-6.1	†-38.8	1.2
Non-Hispanic Asian or Pacific Islander ⁵ to non-Hispanic white:													
Total	†-66.3	†-11.1	†-25.8	†-15.4	†-51.3	†-68.4	†-65.6	†-59.2	†-54.6	†-50.3	†-43.1	†-41.0	†-47.4
Male	†-64.8	†-11.7	†-24.2	†-22.1	†-50.8	†-67.6	†-64.2	†-56.3	†-52.1	†-47.6	†-42.0	†-41.0	†-46.5
Female	†-67.8	†-10.3	†-28.0	-6.7	†-51.1	†-68.7	†-66.1	†-61.7	†-56.3	†-52.1	†-44.0	†-41.2	†-47.6
Non-Hispanic white to Hispanic:													
Total	†218.3	†4.1	†15.7	†16.0	†15.7	†49.6	†59.9	†54.5	†44.8	†35.8	†34.8	†50.2	†42.3
Male	†199.9	4.7	†17.8	†23.9	†7.9	†43.0	†51.2	†44.8	†38.9	†30.8	†29.8	†51.6	†38.1
Female	†241.5	3.3	†13.9	6.1	†39.1	†74.5	†82.3	†74.4	†54.9	†40.1	†37.6	†49.4	†46.9

Table I-3. Percent difference in crude and age-adjusted death rates between males and females and selected racial and ethnic groups, based on bridged-race versus single-race data: United States, 2018—Con.

[Based on rates from report Table 2. Bridged-race categories are consistent with 1977 Office of Management and Budget (OMB) standards; single-race categories are consistent with 1997 OMB standards. Race and Hispanic origin are reported separately on death certificates. Hispanic persons may be of any race. Data for specified categories other than non-Hispanic white and non-Hispanic black should be interpreted with caution because of inconsistencies between reporting these items on death certificates and on censuses and surveys; see Technical Notes in report]

Race and Hispanic origin and sex	All ages ¹	Age group (years)											Age-adjusted rate
		Under 1 ²	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	
Percent difference based on single-race deaths and population estimates ⁶													
Male to female:													
Non-Hispanic white	†6.1	†21.7	†33.3	†32.7	†128.0	†109.5	†72.9	†58.5	†65.3	†51.9	†34.4	†12.7	†37.9
Non-Hispanic black	†18.8	†24.9	†41.0	†25.5	†227.1	†136.8	†80.0	†61.2	†66.4	†66.1	†46.4	†13.8	†50.3
Non-Hispanic American Indian or Alaska Native ⁴	‡†23.1	11.0	†69.2	-22.6	†165.9	†92.4	†73.7	†61.6	†59.8	‡†35.0	†19.1	-0.3	‡†36.5
Non-Hispanic Asian or Pacific Islander ⁷	†14.9	14.0	†46.1	14.6	†120.2	†114.2	†82.2	†78.7	†80.4	†65.7	†38.7	†13.1	†39.9
Hispanic	†20.9	†20.7	†28.9	†14.1	†193.2	†156.4	†108.4	†90.9	†84.3	†62.6	†42.5	†11.1	†46.7
Non-Hispanic black to non-Hispanic white:													
Total	‡†-24.4	‡†148.0	†89.8	†80.8	†64.3	†37.4	†45.7	†44.4	†48.7	†39.8	†12.7	†-14.7	‡†19.2
Male	‡†-20.1	‡†150.9	†94.9	†76.8	†81.6	†44.0	†50.3	†47.5	†51.5	†48.4	†20.1	†-13.6	‡†25.6
Female	‡†-28.6	†144.5	†84.4	†86.9	†26.6	†27.4	†44.4	†45.0	†50.5	†35.7	†10.3	†-14.4	‡†15.3
Non-Hispanic American Indian or Alaska Native ⁴ to non-Hispanic white:													
Total	‡†-33.4	†55.3	†97.3	†122.4	†88.5	†121.1	†113.5	†71.6	†27.1	†10.3	†-9.2	†-40.1	†5.6
Male	†-28.5	†49.1	†116.8	†71.1	†97.5	†115.2	†114.7	†74.0	†26.5	†5.1	†-14.5	†-44.6	†4.6
Female	‡†-38.4	†63.4	70.8	†193.5	†69.3	†134.3	†113.8	†70.6	†30.9	†18.3	-3.5	†-37.3	‡†5.8
Non-Hispanic Asian or Pacific Islander ⁷ to non-Hispanic white:													
Total	†-66.2	†-12.4	†-22.7	†-17.6	†-52.5	†-70.5	†-66.9	†-60.4	†-55.9	†-51.3	†-43.5	†-40.9	‡†-48.0
Male	†-64.8	†-14.9	†-19.5	†-22.5	†-52.6	†-69.9	†-65.6	†-57.8	†-53.5	†-48.6	†-42.5	†-40.9	†-47.2
Female	†-67.5	-9.2	†-26.6	-10.3	†-51.0	†-70.5	†-67.3	†-62.6	†-57.4	†-52.9	†-44.3	†-41.1	†-48.0
Non-Hispanic white to Hispanic:													
Total	‡†223.1	†5.0	†17.8	†17.9	†17.3	†51.0	†61.0	†55.3	†45.5	†36.3	†35.3	†50.7	†42.9
Male	‡†204.4	†5.3	†19.6	†25.7	†9.5	†44.2	†52.2	†45.6	†39.5	†31.3	†30.2	†52.1	†38.7
Female	‡†246.7	4.5	†15.7	8.1	†40.8	†76.5	†83.4	†75.4	†55.5	†40.5	†38.0	†49.9	†47.4

† Intergroup disparity in death rates is statistically significant at $p < 0.05$; see Healthy People Statistical Notes No. 27; see reference 14 in report.

‡ Change in intergroup disparity in death rates is statistically significant at $p < 0.05$; see Healthy People Statistical Notes No. 27 (Talih and Huang, 2016).

¹Deaths for which age was not stated are included in "All ages" but not distributed among age groups.

²Death rates for "Under 1" (based on population estimates) differ from infant mortality rates (based on live births).

³Multiple-race data reported according to 1997 OMB standards were bridged to single-race categories of 1977 OMB standards.

⁴Includes Aleut and Eskimo persons.

⁵Includes Chinese, Filipino, Hawaiian, Japanese, and other Asian or Pacific Islander persons.

⁶Data reported according to 1997 OMB standards. For race-specific categories, only one race was reported on the death certificate.

⁷Includes the Asian and Native Hawaiian or Other Pacific Islander categories; replicates the bridged-race Asian or Pacific Islander category for comparison purposes.

SOURCE: National Center for Health Statistics, National Vital Statistics System, Mortality.