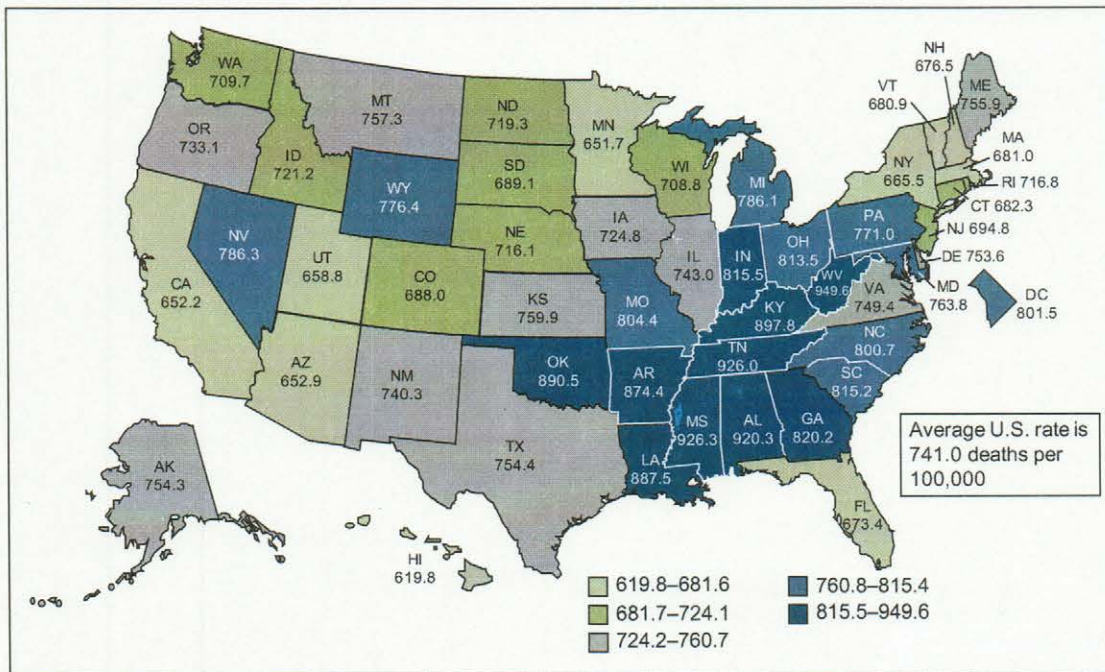


**Do death rates vary by state?**

States experience different risks of mortality. Hawaii has the lowest age-adjusted death rate (619.8 deaths per 100,000 population) of all the states, 16.4 percent lower than the average rate for the United States (741.0). West Virginia had the highest state age-adjusted death rate in 2009, 28.2 percent higher than the average U.S. rate.

In general, states in the Southeast region have higher rates than those in other regions of the country. Louisiana, for example, is typical of the region and has an age-adjusted death rate of 887.5 deaths per 100,000 population (3). States in other regions of the country, such as Illinois in the Midwest (743.0 deaths per 100,000 population) and Oregon in the West (733.1 deaths per 100,000 population), have rates that are more comparable with the average U.S. rate (3) (Figure 4).

Figure 4. Age-adjusted death rates, by state and the District of Columbia: United States, preliminary 2009



SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

**Ratio of 2009 Age-Adjusted Total Death Rates (deaths/100,000)**

California / U.S.	$652.2 / 741.1 = 0.88 = 88\%$
'South Coast Air Basin' (4 Counties) / U.S.	$650.8 / 741.1 = 0.88 = 88\%$
Los Angeles County / U.S.	$637.3 / 741.1 = 0.86 = 86\%$
Orange County / U.S.	$570.9 / 741.1 = 0.77 = 77\%$

Underlying Cause of Death, 1999-2009 Results  
2009 Age-adjusted Total Death Rate by California County

County	Deaths	Population	Crude Rate Per 100,000	Age Adjusted Rate Per 100,000
Alameda County, CA (06001)	8,903	1,491,482	596.9	610.0
Amador County, CA (06005)	404	37,876	1,066.6	734.0
Butte County, CA (06007)	2,230	220,577	1,011.0	828.4
Calaveras County, CA (06009)	491	46,731	1,050.7	821.9
Colusa County, CA (06011)	124	21,321	581.6	567.2
Contra Costa County, CA (06013)	6,988	1,041,274	671.1	632.9
Del Norte County, CA (06015)	257	29,114	882.7	807.9
El Dorado County, CA (06017)	1,340	178,447	750.9	783.2
Fresno County, CA (06019)	6,102	915,267	666.7	772.1
Glenn County, CA (06021)	221	28,299	780.9	769.9
Humboldt County, CA (06023)	1,229	129,623	948.1	871.4
Imperial County, CA (06025)	874	166,874	523.7	581.9
Inyo County, CA (06027)	202	17,293	1,168.1	891.3
Kern County, CA (06029)	5,267	807,407	652.3	849.0
Kings County, CA (06031)	797	148,764	535.7	779.1
Lake County, CA (06033)	788	65,279	1,207.1	950.0
Lassen County, CA (06035)	235	34,473	681.7	828.1
Los Angeles County, CA (06037)	57,910	9,848,011	588.0	637.3
Madera County, CA (06039)	917	148,632	617.0	740.3
Marin County, CA (06041)	1,704	250,750	679.6	493.5
Mariposa County, CA (06043)	160	17,792	899.3	645.5
Mendocino County, CA (06045)	805	86,040	935.6	743.8
Merced County, CA (06047)	1,502	245,321	612.3	747.6
Modoc County, CA (06049)	120	9,107	1,317.7	916.9
Mono County, CA (06051)	42	12,927	324.9	305.4
Monterey County, CA (06053)	2,263	410,370	551.5	605.4
Napa County, CA (06055)	1,229	134,650	912.7	718.4
Nevada County, CA (06057)	841	97,751	860.3	606.1
Orange County, CA (06059)	16,984	3,026,786	561.1	570.9
Placer County, CA (06061)	2,529	348,552	725.6	604.8
Plumas County, CA (06063)	219	20,122	1,088.4	703.1
Riverside County, CA (06065)	13,842	2,125,440	651.3	691.9
Sacramento County, CA (06067)	9,815	1,400,949	700.6	717.5
San Benito County, CA (06069)	272	55,058	494.0	569.2
San Bernardino County, CA (06071)	11,911	2,017,673	590.3	793.1
San Diego County, CA (06073)	19,177	3,053,793	628.0	630.1
San Francisco County, CA (06075)	5,571	815,358	683.3	560.5
San Joaquin County, CA (06077)	4,507	674,860	667.8	754.6
San Luis Obispo County, CA (06079)	2,087	266,971	781.7	638.3
San Mateo County, CA (06081)	4,508	718,989	627.0	543.6
Santa Barbara County, CA (06083)	2,854	407,057	701.1	612.8
Santa Clara County, CA (06085)	8,958	1,784,642	501.9	527.5
Santa Cruz County, CA (06087)	1,707	256,218	666.2	655.0
Shasta County, CA (06089)	1,915	181,099	1,057.4	869.0
Sierra County, CA (06091)	45	3,174	1,417.8	865.1
Siskiyou County, CA (06093)	553	44,634	1,239.0	858.6
Solano County, CA (06095)	2,810	407,234	690.0	697.6
Sonoma County, CA (06097)	3,777	472,102	800.0	663.2
Stanislaus County, CA (06099)	3,440	510,385	674.0	749.0
Sutter County, CA (06101)	700	92,614	755.8	734.5
Tehama County, CA (06103)	580	61,138	948.7	819.6
Trinity County, CA (06105)	162	14,165	1,143.7	671.4
Tulare County, CA (06107)	2,662	429,668	619.5	760.7
Tuolumne County, CA (06109)	556	55,175	1,007.7	672.7
Ventura County, CA (06111)	5,031	802,983	626.5	619.8
Yolo County, CA (06113)	1,118	199,407	560.7	653.9
Yuba County, CA (06115)	494	72,925	677.4	847.8

Notes:

**Caveats:**

Data are Suppressed when the data meet the criteria for confidentiality constraints. [More information.](#)

The populations used to calculate standard age-adjusted rates are documented here: [More information.](#)

The method used to calculate age-adjusted rates is documented here: [More information.](#)

Deaths for persons of unknown age are included in counts and crude rates, but are not included in age-adjusted rates.

The population figures (other than the infant age groups and the year 2000) are bridged-race estimates of the July 1 resident population, generally from the corresponding county-level postcensal series: 2009 from the Vintage 2009 series, 2008 from the Vintage 2008 series, 2007 from the Vintage 2007 series, 2006 from the Vintage 2006 series, 2005 from the Vintage 2005 series, 2004 from the Vintage 2004 series, and 2003 from the Vintage 2003 series. The population figures for 2002 and 2001 are from the Vintage 2002 postcensal series. Population figures for 2000 are April 1 Census counts. Population figures for 1999 are from the 1999 intercensal series of July 1 estimates.

The population figures used in the calculation of death rates for the age group 'under 1 year' are the estimates of the resident population that is under one year of age. [More information.](#)

**Help:**

See [Underlying Cause of Death, 1999-2009 Documentation](#) for more information.

**Query Date:** Jul 14, 2012 4:53:22 AM

**Suggested Citation:**

Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2009 on CDC WONDER Online Database, released 2012. Data for year 2009 are compiled from the Multiple Cause of Death File 2009, Series 20 No. 20, 2012, Data for year 2008 are compiled from the Multiple Cause of Death File 2008, Series 20 No. 2N, 2011, data for year 2007 are compiled from Multiple Cause of Death File 2007, Series 20 No. 2M, 2010, data for years 2005-2006 data are compiled from Multiple Cause of Death File 2005-2006, Series 20, No. 2L, 2009, and data for years 1999-2004 are compiled from the Multiple Cause of Death File 1999-2004, Series 20, No. 2J, 2007. Accessed at <http://wonder.cdc.gov/ucd-icd10.html> on Jul 14, 2012 4:53:22 AM

**Query Criteria:**

<b>Title:</b>	2009 Age-adjusted Total Death Rate by California County
<b>Autopsy:</b>	All
<b>Gender:</b>	All
<b>Hispanic Origin:</b>	All
<b>ICD-10 Codes:</b>	All
<b>Place of Death:</b>	All
<b>Race:</b>	All
<b>States:</b>	California (06)
<b>Ten-Year Age Groups:</b>	All
<b>Urbanization:</b>	All
<b>Weekday:</b>	All
<b>Year/Month:</b>	2009
<b>Group By:</b>	County
<b>Show Totals:</b>	Disabled
<b>Show Zero Values:</b>	False
<b>Show Suppressed:</b>	False
<b>Standard Population:</b>	2000 U.S. Std. Population
<b>Calculate Rates Per:</b>	100,000

## Underlying Cause of Death, 1999-2009 Results

## 2009 Age-adjusted Total Death Rate by State

State	Deaths	Population	Crude Rate Per 100,000	Age Adjusted Rate Per 100,000
Alabama (01) §	47,470	4,708,708	1,008.1	921.3
Alaska (02)	3,618	698,473	518.0	755.0
Arizona (04)	45,816	6,595,778	694.6	652.2
Arkansas (05)	28,673	2,889,450	992.3	874.6
California (06)	232,736	36,961,664	629.7	652.0
Colorado (08)	31,173	5,024,748	620.4	688.1
Connecticut (09)	28,585	3,518,288	812.5	684.1
Delaware (10)	7,534	885,122	851.2	753.5
District of Columbia (11)	4,834	599,657	806.1	812.7
Florida (12)	169,924	18,537,969	916.6	673.7
Georgia (13)	69,712	9,829,211	709.2	818.4
Hawaii (15)	9,914	1,295,178	765.5	619.7
Idaho (16)	11,098	1,545,801	717.9	721.3
Illinois (17)	100,056	12,910,409	775.0	743.5
Indiana (18)	55,973	6,423,113	871.4	815.8
Iowa (19)	27,544	3,007,856	915.7	724.7
Kansas (20)	24,024	2,818,747	852.3	760.2
Kentucky (21)	41,380	4,314,113	959.2	898.7
Louisiana (22) §	40,282	4,492,076	896.7	888.3
Maine (23)	12,594	1,318,301	955.3	757.7
Maryland (24)	43,843	5,699,478	769.2	762.6
Massachusetts (25)	52,308	6,593,587	793.3	680.3
Michigan (26)	86,455	9,969,727	867.2	785.9
Minnesota (27)	37,851	5,266,214	718.8	651.8
Mississippi (28) §	28,275	2,951,996	957.8	926.1
Missouri (29)	54,263	5,987,580	906.3	804.6
Montana (30)	8,730	974,989	895.4	758.0
Nebraska (31)	14,810	1,796,619	824.3	716.1
Nevada (32)	19,224	2,643,085	727.3	784.8
New Hampshire (33)	10,100	1,324,575	762.5	677.3
New Jersey (34)	68,277	8,707,739	784.1	694.8
New Mexico (35)	15,643	2,009,671	778.4	739.4
New York (36)	146,475	19,541,453	749.6	667.1
North Carolina (37)	77,117	9,380,884	822.1	800.7
North Dakota (38)	5,914	646,844	914.3	719.4
Ohio (39)	107,156	11,542,645	928.3	813.4
Oklahoma (40)	35,601	3,687,050	965.6	890.5
Oregon (41)	31,636	3,825,657	826.9	733.1
Pennsylvania (42)	124,780	12,604,767	989.9	770.8
Rhode Island (44)	9,395	1,053,209	892.0	717.6
South Carolina (45)	40,449	4,561,242	886.8	818.2
South Dakota (46)	6,923	812,383	852.2	689.3
Tennessee (47)	58,288	6,296,254	925.8	867.2
Texas (48) §	163,249	24,782,302	658.7	754.3
Utah (49)	14,138	2,784,572	507.7	658.7
Vermont (50)	5,034	621,760	809.6	681.6
Virginia (51)	58,653	7,882,590	744.1	749.3
Washington (53)	48,270	6,664,195	724.3	709.8
West Virginia (54)	21,386	1,819,777	1,175.2	949.7
Wisconsin (55)	45,697	5,654,774	808.1	708.9
Wyoming (56)	4,283	544,270	786.9	776.4
<b>Total</b>	<b>2,437,163</b>	<b>307,006,550</b>	<b>793.8</b>	<b>741.1</b>

§ The 2005 and later population estimates for Alabama, Louisiana, Mississippi and Texas reflect population changes that occurred after Hurricane Katrina and Rita in 2005. See Caveats below for more information.

**Notes:****Caveats:**

The populations used to calculate standard age-adjusted rates are documented here: [More information.](#)

The method used to calculate age-adjusted rates is documented here: [More information.](#)

Deaths for persons of unknown age are included in counts and crude rates, but are not included in age-adjusted rates.

To accommodate geographic shifts of the Alabama, Louisiana, Mississippi, and Texas populations resulting from Hurricanes Katrina and Rita in 2005, the U.S. Census Bureau developed adjustments in the methodology for state and county population estimates. [More information.](#)

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**Help:** See Underlying Cause of Death, 1999-2009 Documentation for more information.

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<b>Race:</b>	All
<b>States:</b>	All
<b>Ten-Year Age Groups:</b>	All
<b>Urbanization:</b>	All
<b>Weekday:</b>	All
<b>Year/Month:</b>	2009
<b>Group By:</b>	State
<b>Show Totals:</b>	True
<b>Show Zero Values:</b>	False
<b>Show Suppressed:</b>	False
<b>Standard Population:</b>	2000 U.S. Std. Population
<b>Calculate Rates Per:</b>	100,000