



## Minnesota Mortality Rates Decline between 2000 and 2003

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- Minnesota life expectancy grew by 0.6 years between 2000 and 2003; national life expectancy grew 0.7 years.
- Minnesota mortality rates have fallen substantially at older ages.
- Age-adjusted mortality rates for the major causes of death – cancer, heart disease and cerebrovascular diseases – have fallen.

Minnesotans are living longer than ever before. The estimated life expectancy at birth in 2003 was 77.3 years for males, 82.2 years for females and 79.8 years for the total population. Since 2000, life expectancy has increased 0.7 years for males and 0.6 years for females. If this trend continues, the 2000s will see some of the largest gains in life expectancy in several decades.

Life expectancy gains are not confined to Minnesota. Nationally, life expectancy went up 0.7 years between 2000 and 2003. In both Minnesota and the United States, life expectancy at older ages showed significant gains. Average life expectancy at age 65 went up 0.5 years in Minnesota and 0.6 years in the United States. At age 80, life expectancy grew 0.3 years in Minnesota and 0.5 years nationally.

The gains in life expectancy at older ages were produced by falling mortality rates. Minnesota's infant death rates also fell during the three-year period. Death rates among young age groups other than infants showed little change, increasing slightly in some cases and decreasing a little in others.

Age-standardized death rates in Minnesota have fallen for the three leading causes of death: diseases of the heart, malignant neoplasms (cancer) and cerebrovascular diseases, e.g. stroke. Heart disease death rates declined the most. Death rates for all other causes combined grew slightly.

Minnesotans live considerably longer than the national average. In 2003, life expectancy in the United States was 77.6 years, 2.2 years less than in Minnesota. Minnesota's age-standardized death rates for heart disease, cancer and stroke are all significantly below the national average.

**Expectation of life at selected ages  
Minnesota, 2000 and 2003**

Age	Total 2000	Total 2003	Males 2000	Males 2003	Females 2000	Females 2003
0	79.2	79.8	76.6	77.3	81.6	82.2
20	60.0	60.5	57.6	58.2	62.2	62.7
45	36.1	36.7	34.0	34.6	38.0	38.5
65	18.8	19.3	17.0	17.7	20.3	20.6
80	8.9	9.2	7.7	8.1	9.7	9.9

Minnesota State Demographic Center life table, based on U.S. Census Bureau population estimates by age and mortality data from Minnesota Center for Health Statistics

**Expectation of life at selected ages  
United States, 2000 and 2003**

Age	Total 2000	Total 2003	Males 2000	Males 2003	Females 2000	Females 2003
0	76.9	77.6	74.1	74.8	79.5	80.1
20	57.8	58.5	55.2	55.9	60.3	60.9
45	34.4	35.0	32.2	32.8	36.3	37.0
65	17.9	18.5	16.3	16.8	19.2	19.8
80	8.6	9.1	7.6	8.1	9.1	9.7

2000 United States life table from the National Center for Health Statistics at:  
[http://www.cdc.gov/nchs/data/nvsr/nvsr51/nvsr51\\_03.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr51/nvsr51_03.pdf)

2003 Preliminary United States life table from the National Center for Health Statistics at:  
[http://www.cdc.gov/nchs/data/nvsr/nvsr53/nvsr53\\_15.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr53/nvsr53_15.pdf)

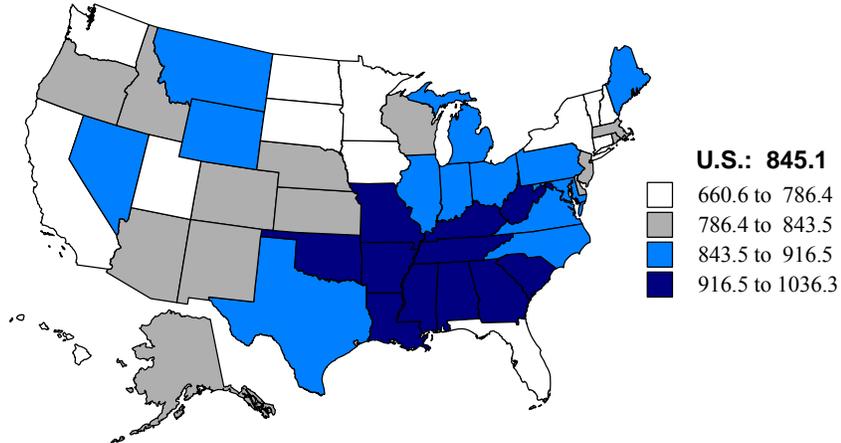
**Change in Minnesota Death Rates by Age, 2000 to 2003  
(Per 100,000  
Population)**

<b>Age</b>	<b>2000 deaths per 100,000</b>	<b>2003 deaths per 100,000</b>	<b>Change, 2000 to 2003</b>	<b>Percent change in rate</b>
All ages	762.0	742.5	-19.5	-2.6
0	571.6	481.0	-90.6	-15.9
1 to 4	21.3	24.5	3.2	15.0
5 to 9	16.7	10.8	-5.9	-35.1
10 to 14	17.1	19.2	2.1	12.3
15 to 19	51.7	58.9	7.3	14.1
20 to 24	76.9	79.6	2.7	3.5
25 to 29	73.4	63.8	-9.6	-13.1
30 to 34	74.6	76.9	2.4	3.2
35 to 39	110.4	115.7	5.3	4.8
40 to 44	158.1	152.5	-5.6	-3.5
45 to 49	247.0	250.0	3.0	1.2
50 to 59	366.3	357.1	-9.2	-2.5
55 to 59	608.2	534.8	-73.4	-12.1
60 to 64	949.3	916.3	-32.9	-3.5
65 to 69	1615.8	1402.0	-213.9	-13.2
70 to 74	2533.4	2429.3	-104.1	-4.1
75 to 79	4031.9	3769.4	-262.5	-6.5
80 to 84	6518.2	6376.0	-142.2	-2.2
85+	14935.2	13991.0	-944.2	-6.3

Death data from Minnesota Center for Health Statistics.  
Age estimates from U.S. Census Bureau.

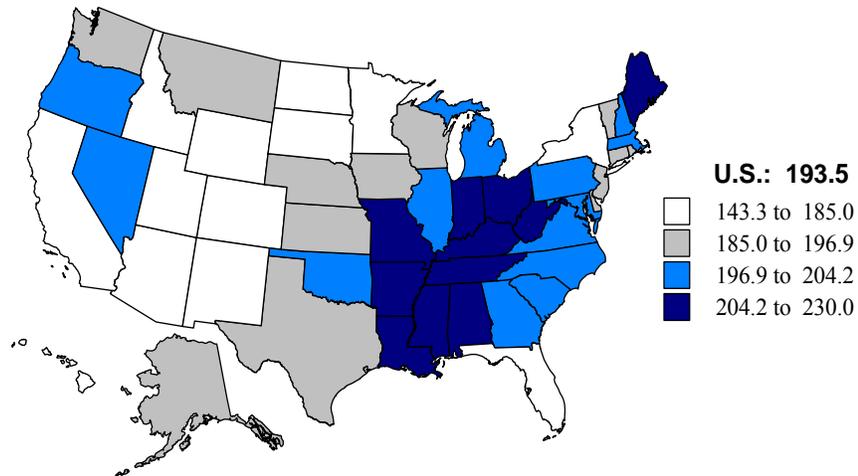
## Age-adjusted deaths per 100,000

National Center for Health Statistics, 2002



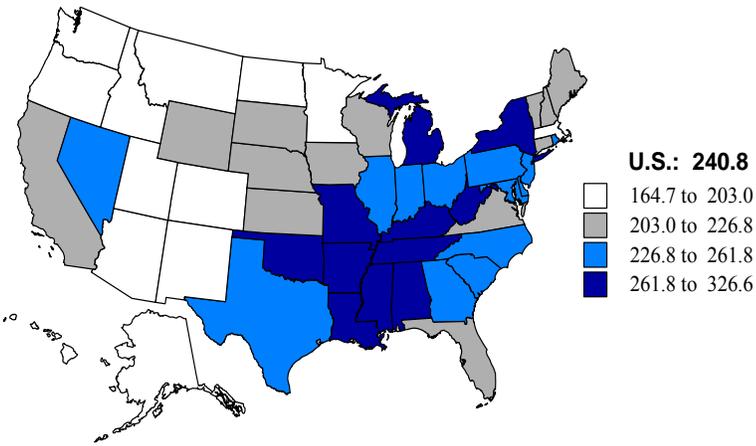
## Age-adjusted cancer deaths per 100,000

National Center for Health Statistics, 2002



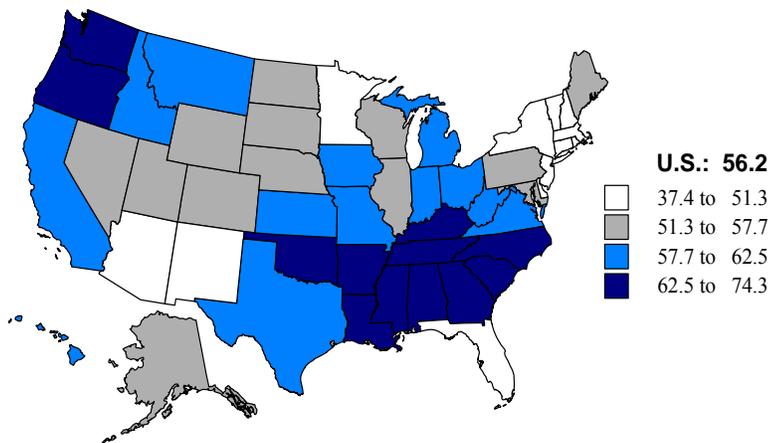
### Age-adjusted heart deaths per 100,000

National Center for Health Statistics, 2002



### Age-adjusted cerebrovascular deaths per 100,000

National Center for Health Statistics, 2002



Notes:

2000 national life tables are available from several sources. National Vital Statistics Reports, Vol. 53, No. 6, November 10, 2004 [http://www.cdc.gov/nchs/data/dvs/nvsr53\\_06t12.pdf](http://www.cdc.gov/nchs/data/dvs/nvsr53_06t12.pdf) gives the life expectancy figures as 77.0 for the total population, 74.3 for males and 79.7 for females.

National Vital Statistics Reports, Volume 15, No. 3, December 19, 2002

[http://www.cdc.gov/nchs/data/nvsr/nvsr51/nvsr51\\_03.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr51/nvsr51_03.pdf)

gives 2000 United States life expectancy figures of 76.9 for the total population, 74.1 for males and 79.5 for females. These are the numbers used in this report, mainly because they provide data on life expectancy by age.

The standardized age distribution used to calculate age-adjusted death rates are found on page 45 in “Deaths: Preliminary Data for 2003,” National Vital Statistics Reports, Volume 53, Number 15, February 28, 2005.

[http://www.cdc.gov/nchs/data/nvsr/nvsr53/nvsr53\\_15.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr53/nvsr53_15.pdf)

2002 age-adjusted death rates by state are found in table 29 of “Deaths: Final Data for 2002,” National Vital Statistics Report, Volume 53, Number 5, October 12, 2004.

[http://www.cdc.gov/nchs/data/nvsr/nvsr53/nvsr53\\_05acc.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr53/nvsr53_05acc.pdf)

The Minnesota life expectancy figures in this report were calculated by the Minnesota State Demographic Center using U.S. Census Bureau age estimates and single-year mortality data. The 2000 life table results are slightly different than those published in Population Notes, April 2002.

<http://www.demography.state.mn.us/PopNotes/LifeExpectancy/MNLifeExpectancy.pdf>