

Maricopa County Health Status Report 2001-2010



Ten Year Trends Reference Tables



Prepared by the Maricopa County Department of Public Health
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Maricopa County

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Ten Year Trends: Reference Tables

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Introduction

This report provides health status information for the years 2001 to 2010 for residents of Maricopa County, Arizona. It includes data for mortality (death), communicable diseases, and natality (birth), as well as information on the size and demographic distribution of the population.

For each disease or health indicator, the following information is provided:

- Number of cases in the county
 - Mortality Disease Example: 5,508 residents of Maricopa County died due to cancer in 2010.*
 - Communicable Disease Example: 63 residents of Maricopa County were diagnosed with a confirmed case of Pertussis in 2010.
 - Natality (Birth) Example: There were 575 infants born with a very low birthweight (less than 1500 grams) in 2010.

- Rate or percentage of cases in the county
 - Mortality Disease Example: For every 100,000 residents of Maricopa County, 144.3 died due to cancer in 2010.*
 - Communicable Disease Example: For every 100,000 residents of Maricopa County, 1.7 were diagnosed with Pertussis in 2010.
 - Natality (Birth) Example: Among all live births in 2010, 1.1% were born with a very low birthweight.

All data in this report are for calendar years 2001 through 2010.

Information on data sources and methodology are in Section III – Technical Notes.

*Except where noted, the cause of death is the underlying cause of death, which is the condition that began the sequence of death. See Technical Notes for more information on the underlying cause of death.

***I. Maricopa County Population Statistics
2001-2010 Tables***

Maricopa County Population Statistics

Table 1.01 Population By Race/Ethnicity, Age, and Sex, 2001

Age by Sex

Race/Ethnicity by Sex

Age	Males		Females		Total		Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
0-4	129,112	8.1%	123,144	7.8%	252,256	7.9%	White	1,024,203	64.5%	1,060,677	66.8%	2,084,880	65.6%
5-9	122,925	7.7%	117,323	7.4%	240,248	7.6%	Hispanic	424,198	26.7%	386,353	24.3%	810,551	25.5%
10-14	119,681	7.5%	113,489	7.1%	233,170	7.3%	African American	59,435	3.7%	56,435	3.6%	115,870	3.6%
15-19	113,023	7.1%	103,421	6.5%	216,444	6.8%	American Indian	23,958	1.5%	26,222	1.7%	50,180	1.6%
20-24	126,634	8.0%	115,275	7.3%	241,909	7.6%	Asian	36,492	2.3%	39,993	2.5%	76,485	2.4%
25-34	258,717	16.3%	237,032	14.9%	495,749	15.6%	Multiple	18,902	1.2%	19,121	1.2%	38,023	1.2%
35-44	247,069	15.6%	238,720	15.0%	485,789	15.3%							
45-54	190,351	12.0%	198,845	12.5%	389,196	12.3%							
55-64	121,271	7.6%	133,110	8.4%	254,381	8.0%	Total	1,587,188		1,588,801		3,175,989	
65-74	88,238	5.6%	102,672	6.5%	190,910	6.0%							
75-84	56,601	3.6%	77,600	4.9%	134,201	4.2%							
85+	13,566	0.9%	28,170	1.8%	41,736	1.3%							
Total	1,587,188		1,588,801		3,175,989								

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2001.

These numbers are from the 2000-2010 Intercensal Population Estimates. The estimate is based off the population changes between the 2000 and 2010 Censuses. These are an update from the previous estimates which were based on the 2000 Census population and information on migration, births, and deaths.

Maricopa County Population Statistics

Table 1.02 Population By Race/Ethnicity, Age, and Sex, 2002

Age by Sex

Race/Ethnicity by Sex

Age	Males		Females		Total		Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
0-4	132,771	8.2%	126,904	7.8%	259,675	8.0%	White	1,036,957	63.8%	1,074,078	65.9%	2,111,035	64.8%
5-9	124,548	7.7%	118,575	7.3%	243,123	7.5%	Hispanic	442,452	27.2%	406,383	24.9%	848,835	26.1%
10-14	123,273	7.6%	117,163	7.2%	240,436	7.4%	African American	61,988	3.8%	58,974	3.6%	120,962	3.7%
15-19	115,514	7.1%	104,841	6.4%	220,355	6.8%	American Indian	24,503	1.5%	26,993	1.7%	51,496	1.6%
20-24	129,772	8.0%	119,860	7.4%	249,632	7.7%	Asian	39,078	2.4%	43,113	2.6%	82,191	2.5%
25-34	262,427	16.1%	242,442	14.9%	504,869	15.5%	Multiple	20,305	1.2%	20,564	1.3%	40,869	1.3%
35-44	249,490	15.4%	241,596	14.8%	491,086	15.1%							
45-54	195,603	12.0%	204,219	12.5%	399,822	12.3%							
55-64	130,571	8.0%	142,959	8.8%	273,530	8.4%	Total	1,625,283		1,630,105		3,255,388	
65-74	89,698	5.5%	104,202	6.4%	193,900	6.0%							
75-84	57,573	3.5%	78,893	4.8%	136,466	4.2%							
85+	14,043	0.9%	28,451	1.7%	42,494	1.3%							
Total	1,625,283		1,630,105		3,255,388								

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2002.

These numbers are from the 2000-2010 Intercensal Population Estimates. The estimate is based off the population changes between the 2000 and 2010 Censuses. These are an update from the previous estimates which were based on the 2000 Census population and information on migration, births, and deaths.

Maricopa County Population Statistics

Table 1.03 Population By Race/Ethnicity, Age, and Sex, 2003

Age by Sex							Race/Ethnicity by Sex						
Age	Males		Females		Total		Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
0-4	136,621	8.2%	131,080	7.9%	267,701	8.0%	White	1,048,393	63.2%	1,086,503	64.1%	2,134,896	63.6%
5-9	125,408	7.6%	119,044	7.1%	244,452	7.3%	Hispanic	458,129	27.6%	425,430	25.1%	883,559	26.3%
10-14	126,664	7.6%	120,504	7.2%	247,168	7.4%	African American	64,337	3.9%	61,560	4.1%	133,293	4.0%
15-19	118,690	7.2%	108,195	6.5%	226,885	6.8%	American Indian	24,955	1.5%	27,775	2.2%	62,606	1.9%
20-24	130,320	7.9%	121,905	7.3%	252,225	7.6%	Asian	41,679	2.5%	45,928	2.9%	91,173	2.7%
25-34	264,503	15.9%	246,367	14.8%	510,870	15.3%	Multiple	21,719	1.3%	22,060	1.7%	49,716	1.5%
35-44	251,171	15.1%	243,634	14.6%	494,805	14.9%							
45-54	201,638	12.2%	210,813	12.6%	412,451	12.4%							
55-64	138,691	8.4%	152,413	9.1%	291,104	8.7%	Total	1,659,212		1,669,256		3,328,468	
65-74	91,800	5.5%	105,930	6.3%	197,730	5.9%							
75-84	58,953	3.6%	80,007	4.8%	138,960	4.2%							
85+	14,753	0.9%	29,364	1.8%	44,117	1.3%							
Total	1,659,212		1,669,256		3,328,468								

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2003.

These numbers are from the 2000-2010 Intercensal Population Estimates. The estimate is based off the population changes between the 2000 and 2010 Censuses. These are an update from the previous estimates which were based on the 2000 Census population and information on migration, births, and deaths.

Maricopa County Population Statistics

Table 1.04 Population By Race/Ethnicity, Age, and Sex, 2004

Age by Sex

Race/Ethnicity by Sex

Age	Males		Females		Total		Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
0-4	141,393	8.3%	135,155	7.9%	276,548	8.1%	White	1,064,916	62.6%	1,103,228	64.3%	2,168,144	63.4%
5-9	127,286	7.5%	120,832	7.0%	248,118	7.3%	Hispanic	475,797	27.9%	445,838	26.0%	921,635	27.0%
10-14	129,584	7.6%	123,843	7.2%	253,427	7.4%	African American	67,910	4.0%	64,921	3.8%	132,831	3.9%
15-19	123,286	7.2%	112,465	6.6%	235,751	6.9%	American Indian	25,695	1.5%	28,430	1.7%	54,125	1.6%
20-24	131,044	7.7%	122,816	7.2%	253,860	7.4%	Asian	44,611	2.6%	49,282	2.9%	93,893	2.7%
25-34	268,282	15.8%	252,285	14.7%	520,567	15.2%	Multiple	23,419	1.4%	23,813	1.4%	47,232	1.4%
35-44	255,549	15.0%	247,736	14.4%	503,285	14.7%							
45-54	208,700	12.3%	217,911	12.7%	426,611	12.5%							
55-64	147,103	8.6%	162,267	9.5%	309,370	9.1%	Total	1,702,348		1,715,512		3,417,860	
65-74	94,583	5.6%	109,020	6.4%	203,603	6.0%							
75-84	60,287	3.5%	80,898	4.7%	141,185	4.1%							
85+	15,251	0.9%	30,284	1.8%	45,535	1.3%							
Total	1,702,348		1,715,512		3,417,860								

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2004.

These numbers are from the 2000-2010 Intercensal Population Estimates. The estimate is based off the population changes between the 2000 and 2010 Censuses. These are an update from the previous estimates which were based on the 2000 Census population and information on migration, births, and deaths.

Maricopa County Population Statistics

Table 1.05 Population By Race/Ethnicity, Age, and Sex, 2005

Age by Sex

Race/Ethnicity by Sex

Age	Males		Females		Total		Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
0-4	146,863	8.3%	141,525	8.0%	288,388	8.1%	White	1,086,912	61.7%	1,125,831	63.3%	2,212,743	62.5%
5-9	130,722	7.4%	123,966	7.0%	254,688	7.2%	Hispanic	500,227	28.4%	472,776	26.6%	973,003	27.5%
10-14	133,327	7.6%	127,183	7.2%	260,510	7.4%	African American	72,520	4.1%	69,638	3.9%	142,158	4.0%
15-19	129,223	7.3%	118,439	6.7%	247,662	7.0%	American Indian	26,680	1.5%	29,600	1.7%	56,280	1.6%
20-24	132,419	7.5%	123,785	7.0%	256,204	7.2%	Asian	48,911	2.8%	54,377	3.1%	103,288	2.9%
25-34	274,294	15.6%	260,909	14.7%	535,203	15.1%	Multiple	25,556	1.5%	25,960	1.5%	51,516	1.5%
35-44	262,480	14.9%	255,100	14.3%	517,580	14.6%							
45-54	218,672	12.4%	227,196	12.8%	445,868	12.6%							
55-64	156,663	8.9%	173,197	9.7%	329,860	9.3%	Total	1,760,806		1,778,182		3,538,988	
65-74	97,783	5.6%	112,523	6.3%	210,306	5.9%							
75-84	61,953	3.5%	82,874	4.7%	144,827	4.1%							
85+	16,407	0.9%	31,485	1.8%	47,892	1.4%							
Total	1,760,806		1,778,182		3,538,988								

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2005.

These numbers are from the 2000-2010 Intercensal Population Estimates. The estimate is based off the population changes between the 2000 and 2010 Censuses. These are an update from the previous estimates which were based on the 2000 Census population and information on migration, births, and deaths.

Maricopa County Population Statistics

Table 1.06 Population By Race/Ethnicity, Age, and Sex, 2006

Age by Sex

Race/Ethnicity by Sex

Age	Males		Females		Total		Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
0-4	150,473	8.3%	144,868	7.9%	295,341	8.1%	White	1,100,307	60.7%	1,137,994	62.1%	2,238,301	61.4%
5-9	135,081	7.5%	128,541	7.0%	263,622	7.2%	Hispanic	524,072	28.9%	500,154	27.3%	1,024,226	28.1%
10-14	136,351	7.5%	130,341	7.1%	266,692	7.3%	African American	77,792	4.3%	74,607	4.1%	152,399	4.2%
15-19	134,355	7.4%	123,822	6.8%	258,177	7.1%	American Indian	27,436	1.5%	30,639	1.7%	58,075	1.6%
20-24	134,147	7.4%	124,328	6.8%	258,475	7.1%	Asian	54,125	3.0%	59,969	3.3%	114,094	3.1%
25-34	279,598	15.4%	269,031	14.7%	548,629	15.1%	Multiple	27,554	1.5%	28,235	1.5%	55,789	1.5%
35-44	268,557	14.8%	260,629	14.2%	529,186	14.5%							
45-54	226,844	12.5%	235,496	12.9%	462,340	12.7%							
55-64	165,186	9.1%	183,308	10.0%	348,494	9.6%	Total	1,811,286		1,831,598		3,642,884	
65-74	100,609	5.6%	115,637	6.3%	216,246	5.9%							
75-84	62,609	3.5%	82,737	4.5%	145,346	4.0%							
85+	17,476	1.0%	32,860	1.8%	50,336	1.4%							
Total	1,811,286		1,831,598		3,642,884								

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2006.

These numbers are from the 2000-2010 Intercensal Population Estimates. The estimate is based off the population changes between the 2000 and 2010 Censuses. These are an update from the previous estimates which were based on the 2000 Census population and information on migration, births, and deaths.

Maricopa County Population Statistics

Table 1.07 Population By Race/Ethnicity, Age, and Sex, 2007

Age by Sex							Race/Ethnicity by Sex						
Age	Males		Females		Total		Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
0-4	152,392	8.3%	146,574	7.8%	298,966	8.1%	White	1,103,888	59.9%	1,141,428	61.1%	2,245,316	60.5%
5-9	138,050	7.5%	131,193	7.0%	269,243	7.3%	Hispanic	542,893	29.4%	522,812	28.0%	1,065,705	28.7%
10-14	138,430	7.5%	132,864	7.1%	271,294	7.3%	African American	81,735	4.4%	78,606	4.2%	160,341	4.3%
15-19	138,398	7.5%	128,215	6.9%	266,613	7.2%	American Indian	27,951	1.5%	31,360	1.7%	59,311	1.6%
20-24	136,010	7.4%	125,786	6.7%	261,796	7.1%	Asian	57,841	3.1%	64,115	3.4%	121,956	3.3%
25-34	280,014	15.2%	271,168	14.5%	551,182	14.8%	Multiple	29,323	1.6%	30,002	1.6%	59,325	1.6%
35-44	268,726	14.6%	262,716	14.1%	531,442	14.3%							
45-54	234,590	12.7%	242,748	13.0%	477,338	12.9%							
55-64	171,563	9.3%	190,436	10.2%	361,999	9.8%	Total	1,843,631		1,868,323		3,711,954	
65-74	103,725	5.6%	119,822	6.4%	223,547	6.0%							
75-84	63,362	3.4%	82,695	4.4%	146,057	3.9%							
85+	18,371	1.0%	34,106	1.8%	52,477	1.4%							
Total	1,843,631		1,868,323		3,711,954								

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2007.

These numbers are from the 2000-2010 Intercensal Population Estimates. The estimate is based off the population changes between the 2000 and 2010 Censuses. These are an update from the previous estimates which were based on the 2000 Census population and information on migration, births, and deaths.

Maricopa County Population Statistics

Table 1.08 Population By Race/Ethnicity, Age, and Sex, 2008

Age by Sex

Race/Ethnicity by Sex

Age	Males		Females		Total		Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
0-4	152,287	8.1%	146,385	7.7%	298,672	7.9%	White	1,107,726	58.3%	1,145,647	59.1%	2,253,373	59.8%
5-9	141,640	7.6%	135,140	7.1%	276,780	7.3%	Hispanic	556,728	30.1%	540,721	29.1%	1,097,449	29.1%
10-14	139,898	7.5%	134,043	7.1%	273,941	7.3%	African American	85,965	4.8%	82,663	4.5%	168,628	4.5%
15-19	141,665	7.6%	131,965	6.9%	273,630	7.3%	American Indian	28,168	1.5%	31,788	1.6%	59,956	1.6%
20-24	137,073	7.3%	127,976	6.7%	265,049	7.0%	Asian	61,084	3.4%	67,628	3.7%	128,712	3.4%
25-34	280,004	15.0%	271,867	14.3%	551,871	14.6%	Multiple	31,035	1.9%	31,908	1.9%	62,943	1.7%
35-44	267,938	14.3%	263,336	13.9%	531,274	14.1%							
45-54	241,029	12.9%	248,585	13.1%	489,614	13.0%							
55-64	176,938	9.5%	196,617	10.3%	373,555	9.9%	Total	1,870,706		1,900,355		3,771,061	
65-74	109,109	5.8%	126,438	6.7%	235,547	6.2%							
75-84	63,967	3.4%	82,632	4.3%	146,599	3.9%							
85+	19,158	1.0%	35,371	1.9%	54,529	1.4%							
Total	1,870,706		1,900,355		3,771,061								

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2008.

These numbers are from the 2000-2010 Intercensal Population Estimates. The estimate is based off the population changes between the 2000 and 2010 Censuses. These are an update from the previous estimates which were based on the 2000 Census population and information on migration, births, and deaths.

Maricopa County Population Statistics

Table 1.09 Population By Race/Ethnicity, Age, and Sex, 2009

Age by Sex							Race/Ethnicity by Sex						
Age	Males		Females		Total		Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
0-4	147,536	7.8%	142,142	7.4%	289,678	7.6%	White	1,106,967	58.8%	1,145,408	59.7%	2,252,375	59.2%
5-9	143,698	7.6%	136,729	7.1%	280,427	7.4%	Hispanic	563,558	29.9%	552,689	28.8%	1,116,247	29.3%
10-14	140,963	7.5%	135,330	7.0%	276,293	7.3%	African American	89,534	4.8%	86,181	4.5%	175,715	4.6%
15-19	142,616	7.6%	134,225	7.0%	276,841	7.3%	American Indian	27,940	1.5%	31,783	1.7%	59,723	1.6%
20-24	137,451	7.3%	128,874	6.7%	266,325	7.0%	Asian	63,273	3.4%	70,400	3.7%	133,673	3.5%
25-34	277,358	14.7%	271,042	14.1%	548,400	14.4%	Multiple	32,535	1.7%	33,511	1.7%	66,046	1.7%
35-44	265,939	14.1%	262,769	13.7%	528,708	13.9%							
45-54	245,875	13.1%	253,206	13.2%	499,081	13.1%							
55-64	182,758	9.7%	203,655	10.6%	386,413	10.2%	Total	1,883,807		1,919,972		3,803,779	
65-74	115,053	6.1%	132,075	6.9%	247,128	6.5%							
75-84	64,369	3.4%	82,815	4.3%	147,184	3.9%							
85+	20,191	1.1%	37,110	1.9%	57,301	1.5%							
Total	1,883,807		1,919,972		3,803,779								

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2009.

These numbers are from the 2000-2010 Intercensal Population Estimates. The estimate is based off the population changes between the 2000 and 2010 Censuses. These are an update from the previous estimates which were based on the 2000 Census population and information on migration, births, and deaths.

Maricopa County Population Statistics

Table 1.10 Population By Race/Ethnicity, Age, and Sex, 2010

Age by Sex

Age	Males		Females		Total	
	No.	%	No.	%	No.	%
0-4	144,268	7.6%	138,502	7.2%	282,770	7.4%
5-9	144,340	7.6%	138,369	7.2%	282,709	7.4%
10-14	141,354	7.5%	135,874	7.0%	277,228	7.3%
15-19	142,552	7.5%	134,347	7.0%	276,899	7.3%
20-24	137,531	7.3%	129,341	6.7%	266,872	7.0%
25-34	273,147	14.5%	267,979	13.9%	541,126	14.2%
35-44	263,493	14.0%	261,105	13.5%	524,598	13.7%
45-54	248,168	13.1%	255,797	13.3%	503,965	13.2%
55-64	188,576	10.0%	209,733	10.9%	398,309	10.4%
65-74	118,994	6.3%	136,394	7.1%	255,388	6.7%
75-84	65,158	3.5%	83,041	4.3%	148,199	3.9%
85+	20,884	1.1%	38,170	2.0%	59,054	1.5%
Total	1,888,465		1,928,652		3,817,117	

Race/Ethnicity by Sex

Race/Ethnicity	Males		Females		Total	
	No.	%	No.	%	No.	%
White	1,103,660	58.4%	1,142,166	59.2%	2,245,826	58.8%
Hispanic	568,138	30.1%	560,603	29.1%	1,128,741	29.6%
African American	91,003	4.8%	87,801	4.6%	178,804	4.7%
American Indian	27,833	1.5%	31,811	1.6%	59,644	1.6%
Asian	64,628	3.4%	71,995	3.7%	136,623	3.6%
Multiple	33,203	1.8%	34,276	1.8%	67,479	1.8%
Total	1,888,465		1,928,652		3,817,117	

Source: United States Census, 2010 Census. Data on this page were used for calculating all rates (denominators) in this report for 2010.

Maricopa County Population Statistics

Table 1.11 Maricopa County, Phoenix, and Arizona Population 1980-2010

Year	City of Phoenix	Maricopa County	State of Arizona	Source
1980	789,704	1,509,175	2,726,100	1980 U.S. Census
1985	NA	1,837,912	3,162,900	1985 Special Census
1990	983,403	2,122,101	3,680,800	1990 U.S. Census
1995	1,098,684	2,551,765	4,228,900	1995 Special Census
2000	1,321,045	3,072,149	5,130,632	2000 U.S. Census
2001	1,349,058 ¹	3,175,989	5,273,477	2000-2010 U.S. Intercensal Estimate
2002	1,374,124 ¹	3,255,388	5,396,255	2000-2010 U.S. Intercensal Estimate
2003	1,396,380 ¹	3,328,468	5,510,364	2000-2010 U.S. Intercensal Estimate
2004	1,428,351 ¹	3,417,860	5,652,404	2000-2010 U.S. Intercensal Estimate
2005	1,476,331 ¹	3,538,988	5,839,077	2000-2010 U.S. Intercensal Estimate
2006	1,517,126 ¹	3,642,884	6,029,141	2000-2010 U.S. Intercensal Estimate
2007	1,545,949 ¹	3,711,954	6,167,681	2000-2010 U.S. Intercensal Estimate
2008	1,577,812 ¹	3,771,061	6,280,362	2000-2010 U.S. Intercensal Estimate
2009	1,601,587 ¹	3,803,779	6,343,154	2000-2010 U.S. Intercensal Estimate
2010	1,445,632	3,817,117	6,392,017	2010 U.S. Census

1. Population estimates for Phoenix 2001-2009 are based on U.S. Census Estimates for 2009 and made prior to the 2010 Census.

II. Maricopa County Ten-Year Health Trends

Maricopa County Ten-Year Health Trends

**Table 2.01a Selected Underlying Causes of Death 2001-2010
Number of Deaths**

Cause		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
Infectious Diseases	Tuberculosis	8	11	5	7	6	10	5	5	5	10	
	Syphilis	1	1	0	0	0	0	0	0	0	0	
	HIV	99	110	119	108	93	89	71	74	62	67	
Cancer	Stomach	98	94	87	113	110	92	99	109	93	114	
	Colon	500	502	570	500	514	480	506	474	457	501	
	Pancreas	289	278	267	298	319	295	345	344	342	383	
	Lung	1,303	1,417	1,448	1,371	1,352	1,432	1,370	1,333	1,410	1,445	
	Breast	415	394	364	379	356	427	395	426	388	411	
	Uterine & Ovarian	213	226	225	257	247	220	251	241	252	260	
	Prostate	278	300	283	276	293	270	288	304	285	273	
	Urinary	232	232	244	275	276	278	265	249	288	292	
	Lymphoma	202	233	216	195	220	212	201	242	216	190	
	Leukemia	230	201	220	201	207	230	234	218	268	222	
	Other Cancer	1,215	1,188	1,236	1,303	1,283	1,302	1,369	1,344	1,421	1,417	
	All Cancer	4,975	5,066	5,160	5,168	5,177	5,238	5,323	5,284	5,420	5,508	
Diabetes and Alzheimer's	Diabetes	569	691	611	604	597	624	583	623	548	702	
	Alzheimer's	721	936	1,103	1,113	1,246	1,445	1,454	1,458	1,481	1,665	
Major Cardio-vascular Diseases	Heart Disease	Hypertensive Heart Disease	243	307	297	318	345	368	432	385	423	370
		Ischemic Heart Disease	4,548	4,752	4,801	4,655	4,849	4,523	4,138	4,249	4,132	3,957
		Other Heart Disease	1,127	883	868	802	817	828	947	838	864	816
		All Heart Disease	5,918	5,942	5,966	5,775	6,011	5,719	5,517	5,472	5,419	5,143
	Other Cardio-vascular	Primary Hypertension	180	209	224	265	264	283	229	326	318	317
		Cerebrovascular	1,380	1,385	1,313	1,350	1,270	1,217	1,114	1,118	1,068	1,084
		Atherosclerosis	90	122	116	128	171	76	60	87	80	66
		Other Circulatory	218	234	193	220	200	175	208	188	171	199
		All Other Cardiovascular	1,868	1,950	1,846	1,963	1,905	1,751	1,611	1,719	1,637	1,666

(Continued)

Maricopa County Ten-Year Health Trends

Table 2.01a continued

Cause		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Other Respiratory Diseases	Influenza & Pneumonia	581	708	628	582	715	623	456	539	519	296
	Chronic Lower Respiratory	1,386	1,389	1,357	1,318	1,506	1,484	1,407	1,504	1,444	1,463
GI & Urinary	Peptic Ulcer	32	35	29	36	43	43	33	25	26	40
	Liver Disease	338	350	323	320	377	357	356	382	383	386
	Nephritis	286	269	263	257	212	217	214	173	197	180
Pregnancy & Early Life	Pregnancy	6	4	2	2	6	5	6	6	4	8
	Perinatal Conditions	172	193	172	196	181	206	197	183	168	144
	Congenital Malformations	134	113	124	144	123	153	141	133	126	114
	SIDS	20	20	14	8	14	21	22	22	18	16
Other Diseases	Symptoms, Signs	103	159	315	412	511	584	572	447	565	751
	Other Diseases	3,212	3,152	3,175	3,218	3,574	3,864	3,770	3,690	3,896	3,839
External Causes	Motor Vehicle Collisions ¹	487	504	493	537	587	643	505	427	355	336
	All Other Accidents	876	810	806	907	1,098	1,162	1,190	1,253	1,241	1,243
	Suicide	311	457	447	458	486	498	551	535	529	548
	Homicide	335	298	319	307	331	355	329	277	212	219
	Other External Causes	54	59	70	56	92	84	80	69	78	93
	All External Causes	2,063	2,128	2,135	2,265	2,594	2,742	2,655	2,561	2,415	2,439
Unknown	298	264	202	36	6	1	16	1	5	1	
Total		22,790	23,491	23,549	23,532	24,897	25,176	24,409	24,301	24,338	24,438

¹ Refer to the Technical Notes for an explanation of the sharp changes in these causes of death over time.

Maricopa County Ten-Year Health Trends

Table 2.01b Selected Underlying Causes of Death, 2001-2010
Crude Death Rate per 100,000 Residents

Cause		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
Infectious Diseases	Tuberculosis	0.3	0.3	0.2	0.2	0.2	0.3	0.1	0.1	0.1	0.3	
	Syphilis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	HIV	3.1	3.4	3.6	3.2	2.6	2.4	1.9	2.0	1.6	1.8	
Cancer	Stomach	3.1	2.9	2.6	3.3	3.1	2.5	2.7	2.9	2.4	3.0	
	Colon	15.7	15.4	17.1	14.6	14.5	13.2	13.6	12.6	12.0	13.1	
	Pancreas	9.1	8.5	8.0	8.7	9.0	8.1	9.3	9.1	9.0	10.0	
	Lung	41.0	43.5	43.5	40.1	38.2	39.3	36.9	35.3	37.1	37.9	
	Breast	13.1	12.1	10.9	11.1	10.1	11.7	10.6	11.3	10.2	10.8	
	Uterine & Ovarian ¹	13.4	13.9	13.5	15.0	13.9	12.0	13.4	12.7	13.1	13.5	
	Prostate ¹	17.5	18.5	17.1	16.2	16.6	14.9	15.6	16.3	15.1	14.5	
	Urinary	7.3	7.1	7.3	8.0	7.8	7.6	7.1	6.6	7.6	7.6	
	Lymphoma	6.4	7.2	6.5	5.7	6.2	5.8	5.4	6.4	5.7	5.0	
	Leukemia	7.2	6.2	6.6	5.9	5.8	6.3	6.3	5.8	7.0	5.8	
	Other Cancer	38.3	36.5	37.1	38.1	36.3	35.7	36.9	35.6	37.4	37.1	
	All Cancer	156.6	155.6	155.0	151.2	146.3	143.8	143.4	140.1	142.5	144.3	
Diabetes and Alzheimer's	Diabetes	17.9	21.2	18.4	17.7	16.9	17.1	15.7	16.5	14.4	18.4	
	Alzheimer's	22.7	28.8	33.1	32.6	35.2	39.7	39.2	38.7	38.9	43.6	
Major Cardio-vascular Diseases	Heart Disease	Hypertensive Heart Disease	7.7	9.4	8.9	9.3	9.7	10.1	11.6	10.2	11.1	9.7
		Ischemic Heart Disease	143.2	146.0	144.2	136.2	137.0	124.2	111.5	112.7	108.6	103.7
		Other Heart Disease	35.5	27.1	26.1	23.5	23.1	22.7	25.5	22.2	22.7	21.4
		All Heart Disease	186.3	182.5	179.2	169.0	169.9	157.0	148.6	145.1	142.5	134.7
	Other Cardio-vascular	Primary Hypertension	5.7	6.4	6.7	7.8	7.5	7.8	6.2	8.6	8.4	8.3
		Cerebrovascular	43.5	42.5	39.4	39.5	35.9	33.4	30.0	29.6	28.1	28.4
		Atherosclerosis	2.8	3.7	3.5	3.7	4.8	2.1	1.6	2.3	2.1	1.7
		Other Circulatory	6.9	7.2	5.8	6.4	5.7	4.8	5.6	5.0	4.5	5.2
		All Other Cardiovascular	58.8	59.9	55.5	57.4	53.8	48.1	43.4	45.6	43.0	43.6

(Continued)

Maricopa County Ten-Year Health Trends

Table 2.01b continued

Cause		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Other Respiratory Diseases	Influenza & Pneumonia	18.3	21.7	18.9	17.0	20.2	17.1	12.3	14.3	13.6	7.8
	Chronic Lower Respiratory	43.6	42.7	40.8	38.6	42.6	40.7	37.9	39.9	38.0	38.3
GI & Urinary	Peptic Ulcer	1.0	1.1	0.9	1.1	1.2	1.2	0.9	0.7	0.7	1.0
	Liver Disease	10.6	10.8	9.7	9.4	10.7	9.8	9.6	10.1	10.1	10.1
	Nephritis	9.0	8.3	7.9	7.5	6.0	6.0	5.8	4.6	5.2	4.7
Pregnancy & Early Life	Pregnancy ¹	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2
	Perinatal Conditions	5.4	5.9	5.2	5.7	5.1	5.7	5.3	4.9	4.4	3.8
	Congenital Malformations	4.2	3.5	3.7	4.2	3.5	4.2	3.8	3.5	3.3	3.0
	SIDS ²	0.4	0.4	0.2	0.1	0.2	0.3	0.3	0.4	0.3	0.3
Other Diseases	Symptoms, Signs	3.2	4.9	9.5	12.1	14.4	16.0	15.4	11.9	14.9	19.7
	Other Diseases	101.1	96.8	95.4	94.2	101.0	106.1	101.6	97.9	102.4	100.6
External Causes	Motor Vehicle Collisions ³	15.3	15.5	14.8	15.7	16.6	17.7	13.6	11.3	9.3	8.8
	All Other Accidents	27.6	24.9	24.2	26.5	31.0	31.9	32.1	33.2	32.6	32.6
	Suicide	9.8	14.0	13.4	13.4	13.7	13.7	14.8	14.2	13.9	14.4
	Homicide	10.5	9.2	9.6	9.0	9.4	9.7	8.9	7.3	5.6	5.7
	Other External Causes	1.7	1.8	2.1	1.6	2.6	2.3	2.2	1.8	2.1	2.4
	All External Causes	65.0	65.4	64.1	66.3	73.3	75.3	71.5	67.9	63.5	63.9
Unknown		9.4	8.1	6.1	1.1	0.2	0.0	0.4	0.0	0.1	0.0
Total		717.6	721.6	707.5	688.5	703.5	691.1	657.6	644.4	639.8	640.2

¹ Uterine & ovarian cancer and pregnancy rates are per 100,000 females; prostate cancer rates are per 100,000 males.

² Sudden Infant Death Syndrome (SIDS) rates are per 1,000 live births.

³ Refer to the Technical Notes for an explanation of the sharp changes in these causes of death over time.

Maricopa County Ten-Year Health Trends

**Table 2.02a Other Interesting Underlying Causes of Death, 2001-2010
Number of Cases**

Cause		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Infectious Diseases	<i>Clostridium difficile</i>	11	9	29	43	40	77	87	75	96	103
	Other Intestinal Infections	0	2	2	2	4	0	6	10	22	23
	Septicemia	172	210	235	219	258	307	308	180	298	199
	Viral Hepatitis	57	59	85	79	83	133	78	103	138	112
	Coccidioidomycosis	16	24	16	20	19	23	20	9	22	22
	Other Mycoses	13	12	18	15	18	24	17	17	18	12
Cancer	Brain	134	123	128	141	162	149	133	135	163	149
	Lip and Oral	69	57	55	67	72	63	66	69	59	63
	Skin (Melanoma)	68	78	90	90	94	99	101	98	121	103
	Ovarian	133	143	151	167	149	144	168	130	157	156
	Testicular	2	5	3	5	5	0	5	5	6	5
Other Diseases	Anemias	34	31	27	28	26	21	30	19	27	27
	Nutritional Deficiencies	32	20	18	13	14	9	10	12	22	22
	Obesity	23	29	34	39	46	52	49	39	50	90
	Mental & Behavioral Disorders Due to the Use of Alcohol	84	86	111	104	115	96	110	94	106	108
	Parkinson's Disease	220	230	239	222	290	269	253	273	252	270
	Multiple Sclerosis	25	33	25	35	37	53	43	42	38	47
	Epilepsy	13	22	15	19	14	13	13	11	17	19
Cardiovascular	Acute Myocardial Infarction	1,409	1,382	1,286	1,130	1,168	1,015	958	869	888	769
	Congestive Heart Failure	174	127	148	135	149	187	186	138	143	130
Chronic Lower Respiratory	Emphysema	333	253	262	232	215	197	148	130	109	120
	Asthma	36	43	38	28	38	37	33	20	28	32
Liver Disease	Alcoholic Liver Disease	123	168	161	181	223	233	220	259	262	299

(Continued)

Maricopa County Ten-Year Health Trends

Table 2.02a continued

Cause		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Musculoskeletal	Rheumatoid Arthritis	29	32	23	17	25	21	20	27	15	31
	Lupus	13	16	11	12	20	17	16	14	7	12
	Osteoporosis	13	11	11	10	7	6	7	8	6	6
Perinatal Conditions & Congenital Malformations	Disorders Related to Short Gestation & Low Birth Weight	54	67	57	61	46	64	61	60	65	49
	Congenital Malformations of the Circulatory System	49	37	42	37	38	41	46	35	47	36
	Chromosomal Abnormalities	20	12	25	29	21	30	24	32	19	21
External Causes	Falls ¹	266	282	289	323	434	441	497	480	480	494
	Drowning	59	41	55	66	55	56	53	45	54	52
	Unintentional Poisoning ¹	255	258	235	299	327	384	418	458	493	462
	Exposure to Excessive Natural Heat	10	15	18	20	46	40	20	23	20	28
	Legal Intervention	9	10	9	12	4	6	9	8	3	7
	Accidental Discharge of Firearms	64	11	11	5	6	7	6	7	5	9
	Discharge of Firearms, Undetermined Intent	7	8	12	5	15	7	11	5	3	8
	Complications of Medical & Surgical Care	29	31	31	23	22	35	25	25	20	30

¹ Refer to the Technical Notes for an explanation of the sharp changes in these causes of death over time.

Maricopa County Ten-Year Health Trends

Table 2.02b Other Interesting Underlying Causes of Death, 2001-2010
Crude Death Rate per 100,000 Residents

Cause		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Infectious Diseases	<i>Clostridium difficile</i>	0.3	0.3	0.9	1.3	1.1	2.1	2.3	2.0	2.5	2.7
	Other Intestinal Infections	0.0	0.1	0.1	0.1	0.1	0.0	0.2	0.3	0.6	0.6
	Septicemia	5.4	6.5	7.1	6.4	7.3	8.4	8.3	4.8	7.8	5.2
	Viral Hepatitis	1.8	1.8	2.6	2.3	2.3	3.7	2.1	2.7	3.6	2.9
	Coccidioidomycosis	0.5	0.7	0.5	0.6	0.5	0.6	0.5	0.2	0.6	0.6
	Other Mycoses	0.4	0.4	0.5	0.4	0.5	0.7	0.5	0.5	0.5	0.3
Cancer	Brain	4.2	3.8	3.8	4.1	4.6	4.1	3.6	3.6	4.3	3.9
	Lip and Oral	2.2	1.8	1.7	2.0	2.0	1.7	1.8	1.8	1.6	1.7
	Skin (Melanoma)	2.1	2.4	2.7	2.6	2.7	2.7	2.7	2.6	3.2	2.7
	Ovarian ¹	8.4	8.8	9.0	9.7	8.4	7.9	9.0	6.8	8.2	8.1
	Testicular ¹	0.1	0.3	0.2	0.3	0.3	0.0	0.3	0.3	0.3	0.3
Other Diseases	Anemias	1.1	1.0	0.8	0.8	0.7	0.6	0.8	0.5	0.7	0.7
	Nutritional Deficiencies	1.0	0.6	0.5	0.4	0.4	0.2	0.3	0.3	0.6	0.6
	Obesity	0.7	0.9	1.0	1.1	1.3	1.4	1.3	1.0	1.3	2.4
	Mental & Behavioral Disorders Due to the Use of Alcohol	2.6	2.6	3.3	3.0	3.2	2.6	3.0	2.5	2.8	2.8
	Parkinson's Disease	6.9	7.1	7.2	6.5	8.2	7.4	6.8	7.2	6.6	7.1
	Multiple Sclerosis	0.8	1.0	0.8	1.0	1.0	1.5	1.2	1.1	1.0	1.2
	Epilepsy	0.4	0.7	0.5	0.6	0.4	0.4	0.4	0.3	0.4	0.5
Cardiovascular	Acute Myocardial Infarction	44.4	42.5	38.6	33.1	33.0	27.9	25.8	23.0	23.3	20.1
	Congestive Heart Failure	5.5	3.9	4.4	3.9	4.2	5.1	5.0	3.7	3.8	3.4
Chronic Lower Respiratory	Emphysema	10.5	7.8	7.9	6.8	6.1	5.4	4.0	3.4	2.9	3.1
	Asthma	1.1	1.3	1.1	0.8	1.1	1.0	0.9	0.5	0.7	0.8
Liver Disease	Alcoholic Liver Disease	3.9	5.2	4.8	5.3	6.3	6.4	5.9	6.9	6.9	7.8

(Continued)

Maricopa County Ten-Year Health Trends

Table 2.02b continued

Cause		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Musculoskeletal	Rheumatoid Arthritis	0.9	1.0	0.7	0.5	0.7	0.6	0.5	0.7	0.4	0.8
	Lupus	0.4	0.5	0.3	0.4	0.6	0.5	0.4	0.4	0.2	0.3
	Osteoporosis	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Perinatal Conditions & Congenital Malformations	Disorders Related to Short Gestation & Low Birth Weight	1.7	2.1	1.7	1.8	1.3	1.8	1.6	1.6	1.7	1.3
	Congenital Malformations of the Circulatory System	1.5	1.1	1.3	1.1	1.1	1.1	1.2	0.9	1.2	0.9
	Chromosomal Abnormalities	0.6	0.4	0.8	0.8	0.6	0.8	0.6	0.8	0.5	0.6
External Causes	Falls ²	8.4	8.7	8.7	9.5	12.3	12.1	13.4	12.7	12.6	12.9
	Drowning	1.9	1.3	1.7	1.9	1.6	1.5	1.4	1.2	1.4	1.4
	Unintentional Poisoning ²	8.0	7.9	7.1	8.7	9.2	10.5	11.3	12.1	13.0	12.1
	Exposure to Excessive Natural Heat	0.3	0.5	0.5	0.6	1.3	1.1	0.5	0.6	0.5	0.7
	Legal Intervention	0.3	0.3	0.3	0.4	0.1	0.2	0.2	0.2	0.1	0.2
	Accidental Discharge of Firearms	2.0	0.3	0.3	0.1	0.2	0.2	0.2	0.2	0.1	0.2
	Discharge of Firearms, Undetermined Intent	0.2	0.2	0.4	0.1	0.4	0.2	0.3	0.1	0.1	0.2
	Complications of Medical & Surgical Care	0.9	1.0	0.9	0.7	0.6	1.0	0.7	0.7	0.5	0.8

¹ Ovarian cancer rates are per 100,000 females; testicular cancer rates are per 100,000 males.

² Refer to the Technical Notes for an explanation of the sharp changes in these causes of death over time.

Maricopa County Ten-Year Health Trends

**Table 2.03a Firearm, Drug, and Alcohol Induced and Related Deaths 2001-2010
Number of Deaths**

Cause	Year									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Firearm Induced	524	558	513	506	546	583	550	511	447	486
Drug Induced, Including Tobacco	332	354	357	406	470	569	569	571	618	604
Drug Related, Including Tobacco ¹	-	-	-	443	539	825	794	813	824	3,903
Drug Related, Excluding Tobacco	-	-	-	601	739	629	662	656	684	715
Alcohol Induced	212	263	285	289	353	338	354	386	407	447
Alcohol Related	-	-	-	469	530	550	557	595	631	680

¹Refer to the Technical Notes for an explanation of the sharp changes in these causes of death over time.

**Table 2.03b Firearm, Drug, and Alcohol Induced and Related Deaths 2001-2010
Crude Death Rate per 100,000 Residents**

Cause	Year									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Firearm Induced	16.5	17.1	15.4	14.8	15.4	16.0	14.8	13.6	11.8	12.7
Drug Induced, Including Tobacco	10.5	10.9	10.7	11.9	13.3	15.6	15.3	15.1	16.2	15.8
Drug Related, Including Tobacco ¹	-	-	-	13.0	15.2	22.6	21.4	21.6	21.7	102.2
Drug Related, Excluding Tobacco	-	-	-	17.6	20.9	17.3	17.8	17.4	18.0	18.7
Alcohol Induced	6.7	8.1	8.6	8.5	10.0	9.3	9.5	10.2	10.7	11.7
Alcohol Related	-	-	-	13.7	15.0	15.1	15.0	15.8	16.6	17.8

¹Refer to the Technical Notes for an explanation of the sharp changes in these causes of death over time.

Note: Firearm, drug, and alcohol induced and related deaths are also included in other categories, e.g., suicide, homicide, or unintentional injuries. Refer to the Technical Notes for a complete explanation of induced versus related deaths involving firearms, drugs, or alcohol. Multiple cause of death information is unavailable for 2001-2003, and therefore drug and alcohol related deaths are not reported.

Maricopa County Ten-Year Health Trends

Table 2.04 Leading Causes of Death 2001-2010

#	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1	Heart Disease (5,918)	Heart Disease (5,942)	Heart Disease (5,966)	Heart Disease (5,775)	Heart Disease (6,011)	Heart Disease (5,719)	Heart Disease (5,517)	Heart Disease (5,472)	Cancer (5,420)	Cancer (5,508)
2	Cancer (4,975)	Cancer (5,066)	Cancer (5,160)	Cancer (5,168)	Cancer (5,177)	Cancer (5,238)	Cancer (5,323)	Cancer (5,284)	Heart Disease (5,419)	Heart Disease (5,143)
3	Chronic Lower Respiratory (1,386)	Chronic Lower Respiratory (1,389)	Chronic Lower Respiratory (1,357)	Unintentional Injuries (1,444)	Unintentional Injuries (1,685)	Unintentional Injuries (1,805)	Unintentional Injuries (1,695)	Unintentional Injuries (1,680)	Unintentional Injuries (1,596)	Alzheimer's Disease (1,665)
4	Stroke (1,380)	Stroke (1,385)	Stroke (1,313)	Stroke (1,350)	Chronic Lower Respiratory (1,506)	Chronic Lower Respiratory (1,484)	Alzheimer's Disease (1,454)	Chronic Lower Respiratory (1,504)	Alzheimer's Disease (1,481)	Unintentional Injuries (1,579)
5	Unintentional Injuries (1,363)	Unintentional Injuries (1,314)	Unintentional Injuries (1,299)	Chronic Lower Respiratory (1,318)	Stroke (1,270)	Alzheimer's Disease (1,445)	Chronic Lower Respiratory (1,407)	Alzheimer's Disease (1,458)	Chronic Lower Respiratory (1,444)	Chronic Lower Respiratory (1,463)
6	Alzheimer's Disease (721)	Alzheimer's Disease (936)	Alzheimer's Disease (1,103)	Alzheimer's Disease (1,113)	Alzheimer's Disease (1,246)	Stroke (1,217)	Stroke (1,114)	Stroke (1,118)	Stroke (1,068)	Stroke (1,084)
7	Pneumonia & Influenza (581)	Pneumonia & Influenza (708)	Pneumonia & Influenza (628)	Diabetes (604)	Pneumonia & Influenza (715)	Diabetes (624)	Diabetes (583)	Diabetes (623)	Diabetes (548)	Diabetes (702)
8	Diabetes (569)	Diabetes (691)	Diabetes (611)	Pneumonia & Influenza (582)	Diabetes (597)	Pneumonia & Influenza (623)	Suicide (551)	Pneumonia & Influenza (539)	Suicide (529)	Suicide (548)
9	Liver Disease (338)	Suicide (457)	Suicide (447)	Suicide (458)	Suicide (486)	Suicide (498)	Pneumonia & Influenza (456)	Suicide (535)	Pneumonia & Influenza (519)	Liver Disease (386)
10	Homicide (335)	Liver Disease (350)	Liver Disease (323)	Liver Disease (320)	Liver Disease (377)	Liver Disease (357)	Liver Disease (356)	Liver Disease (382)	Liver Disease (383)	Pneumonia & Influenza (296)

Note that some causes of death are grouped under one cause, e.g., unintentional poisonings, falls, and motor vehicle collisions are grouped together as unintentional injuries, and therefore may not appear in the Leading Causes of Death table.

Maricopa County Ten-Year Health Trends

Table 2.05a Number of Confirmed Cases to Residents of Selected Reportable Diseases, 2001-2010

Disease		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Vaccine Preventable	<i>H. influenzae</i>	40	56	44	44	60	54	46	56	50	62
	Measles	1	0	1	0	1	0	0	0	0	0
	Mumps	2	0	1	1	0	3	4	0	4	4
	Pertussis	145	58	75	109	248	21	12	20	65	63
Central Nervous System	Enceph Viral Other	10	12	21	31	23	15	10	7	1	2
	Meningitis Viral/Aseptic	193	232	1,140	562	722	624	551	571	435	642
	Meningococcal Meningitis	15	21	26	9	20	6	6	4	6	6
Enterics	Amebiasis	16	17	28	10	11	10	7	7	0	1
	Botulism	2	2	0	1	0	4	0	3	3	0
	Campylobacteriosis	318	367	464	427	501	432	586	640	518	546
	Cholera	0	0	1	0	0	0	1	0	0	0
	Cryptosporidiosis	7	15	5	7	9	19	27	71	24	21
	<i>E. Coli</i> O157.H7	20	25	28	20	30	42	44	37	46	50
	Giardiasis	208	162	168	105	120	66	96	59	113	103
	Listeriosis	8	10	8	6	8	7	8	5	5	6
	Norovirus ¹	-	-	-	-	-	-	-	64	40	71
	Salmonella Paratyphi	1	6	6	5	0	6	1	5	3	3
	Salmonellosis	374	395	380	356	379	432	493	564	556	505
	Shigellosis	252	354	338	229	249	381	289	380	521	244
	Typhoid	1	0	1	2	4	7	5	2	2	6
Mycosis	Coccidioidomycosis	1,714	2,337	2,019	2,702	2,461	4,209	3,450	3,525	8,078	9,456
Zoonoses/ Vectorborne	Brucellosis	4	5	1	0	2	3	4	2	1	6
	Dengue	1	0	0	0	0	8	1	2	4	7
	Hantavirus Pulm. Syndrome	0	3	0	0	1	3	0	0	0	0
	Lyme Disease	2	3	1	10	7	6	0	2	1	0
	Malaria	14	15	10	13	15	18	7	10	9	20
	West Nile Virus ²	-	-	6	355	79	75	52	90	19	115

(Continued)

Maricopa County Ten-Year Health Trends

Table 2.05a continued

Disease		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Hepatitides	Hepatitis A	197	182	151	120	68	91	79	70	30	33
	Hepatitis B ³ (Acute)	114	148	183	180	239	265	110	115	145	94
	Hepatitis D	0	0	0	0	2	0	0	0	0	0
Other	Legionellosis	11	8	12	13	15	25	33	21	37	44
	MRSA ¹	-	-	-	218	1,109	997	846	915	806	798
	RSV ¹	-	-	-	-	-	-	-	109	1,928	1,718
	Strep Group A	135	191	149	152	168	216	106	112	85	101
	Strep Group B (<90 Days)	44	19	29	34	31	39	42	34	28	30
	Strep Pneumo Invasive	473	495	423	437	474	569	514	574	474	423
	Toxic Shock Syndrome	0	0	5	2	1	0	3	1	0	2
	Vibrio spp.	5	7	8	5	13	10	7	12	9	13
	VRE	610	733	622	991	1,362	1,805	1,692	-	-	-
	Yersiniosis	2	6	7	5	1	11	4	4	6	1
	Hansen's Disease	2	0	1	3	1	2	1	0	0	0
Tuberculosis		163	172	195	186	169	171	171	109	138	153
Sexually Transmitted Diseases	Genital Herpes ⁴	815	777	584	817	799	1,213	1,479	969	693	1,128
	Gonorrhea ⁴	2,824	2,974	2,674	2,967	2,915	4,000	3,173	2,135	2,264	2,290
	Syphilis – Primary and Secondary	150	155	141	112	123	163	192	234	160	159
	Syphilis – All Others	858	708	540	540	421	542	620	650	496	475
	Chlamydia ⁴	8,964	9,663	7,755	10,677	11,330	14,596	14,544	13,426	14,658	15,616
	HIV	335	348	326	319	358	389	404	376	337	290
	AIDS	298	327	319	335	306	332	348	386	346	320
All Others³		9	8	1	17	22	40	48	290	316	194
Total		19,357	21,016	18,897	23,134	24,877	31,927	30,116	26,668	33,460	35,821

¹Norovirus and RSV were not reported to health departments until April 2008. Methicillin-resistant *Staphylococcus Aureus* (MRSA) was not reported until October 2004.

²In 2003, two WNV cases were Maricopa County residents who acquired WNV locally but tests were not confirmed until 2004. The remaining four cases in 2003 were Maricopa County residents who acquired WNV outside of the county. WNV was not reported to health departments until 2003.

³2006-2010 figures for Hepatitis B (Acute) include confirmed and probable cases.

⁴2003 data for genital herpes, Chlamydia, and gonorrhea are disproportionately lower than other years due to a backlog in data entry during 2003.

Maricopa County Ten-Year Health Trends

Table 2.05b Case Rates per 100,000 Residents for Selected Reportable Diseases, 2001-2010

Disease		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
Vaccine Preventable	<i>H. influenzae</i>	1.3	1.7	1.3	1.3	1.7	1.5	1.2	1.5	1.3	1.6	
	Measles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Mumps	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	
	Pertussis	4.6	1.8	2.3	3.2	7.0	0.6	0.3	0.5	1.7	1.7	
Central Nervous System	Enceph Viral Other	0.3	0.4	0.6	0.9	0.6	0.4	0.3	0.2	0.0	0.1	
	Meningitis Viral/Aseptic	6.1	7.1	34.2	16.4	20.4	17.1	14.8	15.1	11.4	16.8	
	Meningococcal Meningitis	0.5	0.6	0.8	0.3	0.6	0.2	0.2	0.1	0.2	0.2	
Enterics	Amebiasis	0.5	0.5	0.8	0.3	0.3	0.3	0.2	0.2	0.0	0.0	
	Botulism	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	
	Campylobacteriosis	10.0	11.3	13.9	12.5	14.2	11.9	15.8	17.0	13.6	14.3	
	Cholera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Cryptosporidiosis	0.2	0.5	0.2	0.2	0.3	0.5	0.7	1.9	0.6	0.6	
	<i>E. Coli</i> O157.H7	0.6	0.8	0.8	0.6	0.8	1.2	1.2	1.0	1.2	1.3	
	Giardiasis	6.5	5.0	5.0	3.1	3.4	1.8	2.6	1.6	3.0	2.7	
	Listeriosis	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	
	Norovirus ¹	-	-	-	-	-	-	-	-	1.7	1.1	1.9
	Salmonella Paratyphi	0.0	0.2	0.2	0.1	0.0	0.2	0.0	0.1	0.1	0.1	
	Salmonellosis	11.8	12.1	11.4	10.4	10.7	11.9	13.3	15.0	14.6	13.2	
	Shigellosis	7.9	10.9	10.2	6.7	7.0	10.5	7.8	10.1	13.7	6.4	
	Typhoid	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.2	
Mycosis	Coccidioidomycosis	54.0	71.8	60.7	79.1	69.5	115.5	92.9	93.5	212.4	247.7	
Zoonoses/ Vectorborne	Brucellosis	0.1	0.2	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.2	
	Dengue	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.1	0.2	
	Hantavirus Pulm. Syndrome	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	
	Lyme Disease	0.1	0.1	0.0	0.3	0.2	0.2	0.0	0.1	0.0	0.0	
	Malaria	0.4	0.5	0.3	0.4	0.4	0.5	0.2	0.3	0.2	0.5	
	West Nile Virus ²	-	-	0.2	10.4	2.2	2.1	1.4	2.4	0.5	3.0	

(Continued)

Maricopa County Ten-Year Health Trends

Table 2.05b continued

Disease		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Hepatitides	Hepatitis A	6.2	5.6	4.5	3.5	1.9	2.5	2.1	1.9	0.8	0.9
	Hepatitis B (Acute)	3.6	4.5	5.5	5.3	6.8	7.3	3.0	3.0	3.8	2.5
	Hepatitis D	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Other	Legionellosis	0.3	0.2	0.4	0.4	0.4	0.7	0.9	0.6	1.0	1.2
	MRSA ¹	-	-	-	6.4	31.3	27.4	22.8	24.3	21.2	20.9
	RSV ¹	-	-	-	-	-	-	-	2.9	50.7	45.0
	Strep Group A	4.3	5.9	4.5	4.4	4.7	5.9	2.9	3.0	2.2	2.6
	Strep Group B (<90 Days) ³	0.8	0.3	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.6
	Strep Pneumo Invasive	14.9	15.2	12.7	12.8	13.4	15.6	13.8	15.2	12.5	11.1
	Toxic Shock Syndrome	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.1
	Vibrio spp.	0.2	0.2	0.2	0.1	0.4	0.3	0.2	0.3	0.2	0.3
	VRE	19.2	22.5	18.7	29.0	38.5	49.5	45.6	-	-	-
	Yersiniosis	0.1	0.2	0.2	0.1	0.0	0.3	0.1	0.1	0.2	0.0
	Hansen's Disease	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
Tuberculosis		5.1	5.3	5.9	5.4	4.8	4.7	4.6	2.9	3.6	4.0
Sexually Transmitted Diseases	Genital Herpes ⁴	25.7	23.9	17.5	23.9	22.6	33.3	39.8	25.7	18.2	29.6
	Gonorrhea ⁴	88.9	91.4	80.3	86.8	82.4	109.8	85.5	56.6	59.5	60.0
	Syphilis – Primary and Secondary	4.7	4.8	4.2	3.3	3.5	4.5	5.2	6.2	4.2	4.2
	Syphilis – All Others	27.0	21.7	16.2	15.8	11.9	14.9	16.7	17.2	13.0	12.4
	Chlamydia ⁴	282.2	296.8	233.0	312.4	320.1	400.7	391.8	356.0	385.4	409.1
	HIV	10.5	10.7	9.8	9.3	10.1	10.7	10.9	10.0	8.9	7.6
	AIDS	9.4	10.0	9.6	9.8	8.6	9.1	9.4	10.2	9.1	8.4
All Others ³		0.3	0.2	0.0	0.5	0.6	1.1	1.3	7.7	8.3	5.1
Total		609.5	645.6	567.7	676.9	702.9	876.4	811.3	707.2	879.7	938.4

¹Norovirus and RSV were not reported to health departments until April 2008. Methicillin-resistant *Staphylococcus Aureus* (MRSA) was not reported until October 2004.

²In 2003, two WNV cases were Maricopa County residents who acquired WNV locally but tests were not confirmed until 2004. The remaining four cases in 2003 were Maricopa County residents who acquired WNV outside of the county. WNV was not reported to health departments until 2003.

³Rates for Streptococcus Group B Invasive disease in infants <90 days are per 1,000 live births.

⁴2003 data for genital herpes, Chlamydia, and gonorrhea are disproportionately lower than other years due to a backlog in data entry during 2003.

Maricopa County Ten-Year Health Trends

**Table 2.06a Congenital Syphilis by Race/Ethnicity and Year
Number of Cases, 2001-2010**

Race/Ethnicity	Year									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
White	3	2	2	1	1	1	5	3	2	7
Hispanic	21	12	19	11	16	7	12	11	7	5
African American	3	3	3	0	3	0	1	2	1	1
American Indian	1	3	1	0	2	2	2	3	1	0
Asian	0	0	0	0	0	0	0	0	1	0
Other/Unknown	0	0	0	0	0	0	0	0	0	0
Total	28	20	25	12	22	10	20	19	12	13

**Table 2.06b Congenital Syphilis by Race/Ethnicity and Year
Case Rates per 100,000 Live Births, 2001-2010**

Race/Ethnicity	Year									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
White	11.4	7.6	7.6	3.7	3.7	3.5	18.6	11.4	8.1	28.6
Hispanic	87.5	48.0	71.0	40.1	55.8	23.0	38.4	40.7	27.5	22.3
African American	148.6	151.7	137.6	0	116.4	0	32.9	61.1	31.2	31.1
American Indian	66.2	191.6	62.0	0	114.4	103.5	197	154.6	57.8	0.0
Asian	0	0	0	0	0	0	0	0	42.6	0.0
Other/Unknown	-	-	-	-	-	-	-	-	-	0.0
Total	50.3	35.3	42.4	19.8	35.4	15.1	30.3	30.3	20.8	23.9

Maricopa County Ten-Year Health Trends

Table 2.07a Selected Maternal & Child Health Indicators, 2001-2010

Indicator		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
Countywide Indicators	Number of Live Births	55,623	56,611	59,000	60,535	62,223	66,162	65,930	62,666	57,655	54,235	
	Male Infants of Total Live Births	28,265	29,059	30,119	30,971	31,771	33,867	33,829	31,950	29,499	27,649	
Percentage of Live Births to Mothers With Selected Risk Factors	Mothers With <12 Years Education	17,233	17,139	18,420	18,662	18,816	19,765	19,707	17,406	14,430	12,073	
	Births to Women 10-19 Years Old	7,222	6,832	6,968	7,082	7,212	7,904	7,816	7,210	6,246	5,342	
	Births to Women 15-17 Years Old	2,522	2,351	2,484	2,540	2,582	2,774	2,664	2,548	2,044	1,652	
	Births to Women Over 35 Years Old	6,375	6,544	6,753	7,339	7,478	8,218	8,372	8,216	7,832	7,664	
	Births to Never Married Women	21,000	21,720	23,191	24,204	25,574	28,224	29,185	27,656	25,535	23,557	
	Tobacco Use During Pregnancy	3,409	3,263	3,226	3,145	2,833	2,737	2,495	2,592	2,332	2,245	
	Alcohol Use During Pregnancy	416	400	475	411	397	334	265	320	247	237	
	Mother with Pre-Existing Cardiac Disease	151	103	73	53	99	117	111	127	128	154	
	Mother with Pre-Existing Diabetes	1,256	1,343	1,180	1,303	1,713	2,005	2,255	2,563	2,296	2,326	
	Mothers with No Medical Risk Factors for Pregnancy	41,703	42,285	43,753	45,689	47,616	51,467	49,387	43,933	39,202	35,811	
Percentage of Live Births With Selected Risk Factors Associated with Pregnancy	Induced Labor	8,752	9,424	10,122	10,726	12,060	11,185	11,873	13,820	13,194	12,598	
	Delivery via C-Section	Primary Cesarean Section	7,158	7,372	7,856	8,260	9,030	10,361	10,413	9,804	8,822	8,463
		Repeat Cesarean Section	4,127	4,933	5,404	6,153	6,826	7,228	7,545	7,722	7,567	6,895
	Preterm Births (Less than 37 Weeks)	5,630	5,877	6,339	6,816	6,804	7,250	6,991	6,583	6,032	5,366	
	Hospital Births	55,197	56,186	58,523	60,098	61,837	65,728	65,512	62,300	57,238	53,800	
	Method of Payment	AHCCCS	24,426	26,569	28,719	30,044	32,242	34,144	34,403	32,972	30,613	28,906
		IHS	187	263	281	219	212	252	320	267	221	182
		Private Insurance	29,171	28,091	28,202	28,264	27,904	29,723	29,238	27,610	25,084	23,408
Self		1,270	1,188	1,153	1,421	1,602	1,819	1,695	1,501	1,372	1,485	

(Continued)

Maricopa County Ten-Year Health Trends

Table 2.07a continued

Indicator		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
	Prenatal Care	None	864	1,000	1,619	1,460	1,193	1,382	1,339	944	864	686
		1 st Trimester	43,429	44,784	46,429	48,202	50,090	53,160	52,961	52,056	48,689	46,571
		2 nd Trimester	8,642	8,566	8,457	8,605	9,107	9,628	9,708	8,046	6,698	5,638
		3 rd Trimester	1,897	1,905	2,157	2,129	1,797	1,949	1,889	1,561	1,296	1,231
	Number of Prenatal Care Visits	0	864	1,000	1,619	1,460	1,193	1,382	1,339	944	864	687
		1-4	1,899	1,885	1,883	2,198	2,147	2,287	2,134	1,722	1,493	1,369
		5-8	6,498	7,239	7,687	8,791	9,859	10,455	10,505	9,315	7,933	6,625
		9-12	23,719	25,250	26,899	30,114	33,038	33,328	31,834	30,633	28,396	26,926
		13+	20,772	20,204	19,260	17,426	15,932	18,577	20,081	19,986	18,849	18,510
	Plurality	Singletons	53,990	54,962	57,281	58,691	60,450	64,275	64,065	60,810	55,944	52,594
		Twins	1,514	1,524	1,589	1,713	1,684	1,788	1,762	1,748	1,633	1,592
Singleton Births Receiving Early & Adequate Prenatal Care ¹		39,657	40,885	40,663	41,925	42,992	45,554	45,626	44,803	41,988	40,007	
Percentage of Live Births with Selected Risk Factors Associated with the Neonate	Neonatal Intensive Care		3,173	3,233	2,974	3,312	3,525	3,326	3,365	3,768	3,841	3,429
	Infants Transferred to Another Facility ¹		249	216	262	289	346	392	297	350	267	217
	Birthweight	Very Low (<1500g)	602	673	673	735	735	790	818	714	690	575
		Low (<2500g)	3,849	3,800	4,113	4,275	4,253	4,638	3,851	3,663	3,428	3,278
		High (>4250g)	1,927	1,953	1,910	1,878	1,866	2,104	2,064	1,903	1,668	1,606
	Infants With a Neural Tube Defect ²		14	7	17	11	7	5	11	11	10	11
	Infants With Fetal Alcohol Syndrome ²		3	0	0	0	1	0	1	1	0	3

¹ See the technical notes for an explanation of early and adequate prenatal care and infants transferred to another facility.

² Due to the collection method for these data, information is underestimated.

Maricopa County Ten-Year Health Trends

Table 2.07b Selected Maternal & Child Health Indicator Percentages, 2001-2010

Indicator		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
Countywide Indicators	Number of Live Births	55,623	56,611	59,000	60,535	62,223	66,162	65,930	62,666	57,655	54,235	
	% Male Infants of Total Live Births	50.80%	51.30%	51.00%	51.20%	51.10%	51.20%	51.30%	51.00%	51.20%	50.98%	
	Fertility Rate per 1,000 Women Age 15-44 ¹	80.1	79.9	81.9	82.3	82.1	85.1	83.7	78.8	72.3	68.4	
Percentage of Live Births to Mothers With Selected Risk Factors	% Mothers With <12 Years Education	31.00%	30.30%	31.20%	30.80%	30.20%	29.90%	29.90%	27.80%	25.00%	22.26%	
	% Births to Women 10-19 Years Old	13.00%	12.10%	11.80%	11.70%	11.60%	11.90%	11.90%	11.50%	10.80%	9.85%	
	% Births to Women 15-17 Years Old	4.50%	4.20%	4.20%	4.20%	4.10%	4.20%	4.00%	4.10%	3.50%	3.05%	
	% Births to Women Over 35 Years Old	11.50%	11.60%	11.40%	12.10%	12.00%	12.40%	12.70%	13.10%	13.60%	14.13%	
	% Births to Never Married Women	37.80%	38.40%	39.30%	40.00%	41.10%	42.70%	44.30%	44.10%	44.30%	43.44%	
	% Tobacco Use During Pregnancy	6.10%	5.80%	5.50%	5.20%	4.60%	4.10%	3.80%	4.10%	4.00%	4.14%	
	% Alcohol Use During Pregnancy	0.70%	0.70%	0.80%	0.70%	0.60%	0.50%	0.40%	0.50%	0.40%	0.44%	
	% Mother with Pre-Existing Cardiac Disease	0.30%	0.20%	0.10%	0.10%	0.20%	0.20%	0.20%	0.20%	0.20%	0.28%	
	% Mother with Pre-Existing Diabetes	2.30%	2.40%	2.00%	2.20%	2.80%	3.00%	3.40%	4.10%	4.00%	4.29%	
	% Mothers with No Medical Risk Factors for Pregnancy	75.00%	74.70%	74.20%	75.50%	76.50%	77.80%	74.90%	70.10%	68.00%	66.03%	
Percentage of Live Births With Selected Risk Factors Associated with Pregnancy	% Induced Labor	15.70%	16.60%	17.20%	17.70%	19.40%	16.90%	18.00%	22.10%	22.90%	23.23%	
	Delivery via C-Section	Primary Cesarean Section	12.90%	13.00%	13.30%	13.60%	14.50%	15.70%	15.80%	15.60%	15.30%	15.60%
		Repeat Cesarean Section	7.40%	8.70%	9.20%	10.20%	11.00%	10.90%	11.40%	12.30%	13.10%	12.71%
	% Preterm Births (Less than 37 Weeks)	10.10%	10.40%	10.70%	11.30%	10.90%	11.00%	10.60%	10.50%	10.50%	9.89%	
	% Hospital Births	99.20%	99.20%	99.20%	99.30%	99.40%	99.30%	99.40%	99.40%	99.30%	99.20%	
	Method of Payment	AHCCCS	43.90%	46.90%	48.70%	49.60%	51.80%	51.60%	52.20%	52.60%	53.10%	53.30%
		IHS	0.30%	0.50%	0.50%	0.40%	0.30%	0.40%	0.50%	0.40%	0.40%	0.34%
		Private Insurance	52.40%	49.60%	47.80%	46.70%	44.80%	44.90%	44.30%	44.10%	43.50%	43.16%
Self		2.30%	2.10%	2.00%	2.30%	2.60%	2.70%	2.60%	2.40%	2.40%	2.74%	

(Continued)

Maricopa County Ten-Year Health Trends

Table 2.07b continued

Indicator		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
	Prenatal Care	None	1.60%	1.80%	2.70%	2.40%	1.90%	2.10%	2.00%	1.50%	1.50%	1.26%
		1 st Trimester	78.10%	79.10%	78.70%	79.60%	80.50%	80.30%	80.30%	83.10%	84.40%	85.87%
		2 nd Trimester	15.50%	15.10%	14.30%	14.20%	14.60%	14.60%	14.70%	12.80%	11.60%	10.40%
		3 rd Trimester	3.40%	3.40%	3.70%	3.50%	2.90%	2.90%	2.90%	2.50%	2.20%	2.27%
	Number of Prenatal Care Visits	0	1.60%	1.80%	2.70%	2.40%	1.90%	2.10%	2.00%	1.50%	1.50%	1.27%
		1-4	3.40%	3.30%	3.20%	3.60%	3.50%	3.50%	3.20%	2.70%	2.60%	2.52%
		5-8	11.70%	12.80%	13.00%	14.50%	15.80%	15.80%	15.90%	14.90%	13.80%	12.22%
		9-12	42.60%	44.60%	45.60%	49.70%	53.10%	50.40%	48.30%	48.90%	49.30%	49.65%
		13+	37.30%	35.70%	32.60%	28.80%	25.60%	28.10%	30.50%	31.90%	32.70%	34.13%
	Plurality	Singletons	97.10%	97.10%	97.10%	97.00%	97.20%	97.10%	97.20%	97.00%	97.00%	96.97%
		Twins	2.70%	2.70%	2.70%	2.80%	2.70%	2.70%	2.70%	2.80%	2.80%	2.94%
	% Singleton Births Receiving Early & Adequate Prenatal Care ²		73.50%	74.40%	71.00%	71.40%	71.10%	70.90%	71.20%	73.70%	75.10%	76.10%
	Percentage of Live Births with Selected Risk Factors Associated with the Neonate	Neonatal Intensive Care		5.70%	5.70%	5.00%	5.50%	5.70%	5.00%	5.10%	6.00%	6.70%
% Infants Transferred to Another Facility ²		0.40%	0.40%	0.40%	0.50%	0.60%	0.60%	0.50%	0.60%	0.50%	0.40%	
Birthweight		Very Low (<1500g)	1.10%	1.20%	1.10%	1.20%	1.20%	1.20%	1.20%	1.10%	1.20%	1.06%
		Low (<2500g)	6.90%	6.70%	7.00%	7.10%	6.80%	7.00%	5.80%	5.80%	5.90%	6.04%
		High (>4250g)	3.50%	3.40%	3.20%	3.10%	3.00%	3.20%	3.10%	3.00%	2.90%	2.96%
% Infants With a Neural Tube Defect ³		0.03%	0.01%	0.03%	0.02%	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	
Infants With Fetal Alcohol Syndrome ³		0.01%	0%	0%	0%	0.00%	0%	0.00%	0.00%	0%	0.01%	

¹ The annual number of women age 15 to 44 years old was used to compute this rate.

² See the technical notes for an explanation of early and adequate prenatal care and infants transferred to another facility.

³ Due to the collection method for these data, information is underestimated.

Maricopa County Ten-Year Health Trends

Table 2.08 Births by Maternal Indicators for Infant Mortality Rate 2001-2010

Maternal Indicators		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Mother's Race	White	26349	26181	26366	26824	27,047	28,364	26,884	26,317	24,721	24,485
	Hispanic	23993	24981	26745	27398	28,649	30,523	31,375	28,724	25,449	22,413
	African American	2019	1978	2180	2407	2,578	2,840	3,040	3,134	3,203	3,215
	American Indian	1511	1566	1614	1720	1,748	1,933	1,905	1,837	1,731	1,585
	Asian	1509	1657	1835	1959	2,020	2,304	2,508	2,444	2,349	2,335
	Other/Unknown	24	248	260	227	181	198	218	210	202	202
Mother's Age	<20	7222	6832	6968	7082	7,212	7,904	7,816	7,210	6,246	5,342
	20-29	30382	30987	32420	32681	33,866	36,090	35,508	33,443	30,476	28,487
	30-39	16872	17662	18389	19431	19,848	20,752	21,070	20,613	19,493	18,972
	40 and Older	1144	1122	1222	1340	1,296	1,415	1,533	1,397	1,439	1,434
Mother's Education Level	Less than 6th Grade	1074	1045	1232	1125	1,084	1,292	1,155	1,011	780	732
	6th-11th Grade	16159	16094	17188	17537	17,732	18,473	18,552	16,395	13,650	11,341
	High School Diploma	14475	15207	15382	15677	16,649	18,216	18,258	17,529	16,280	15,543
	College or Higher	22633	23062	24159	25308	26,183	27,578	27,161	27,186	26,637	26,280
	Unknown	1282	1203	1039	888	575	603	804	545	308	339
Birthweight	<1,500 Grams	602	673	673	735	735	790	818	714	690	575
	1,500-2,499 Grams	3247	3127	3440	3540	3,518	3,848	3,851	3,663	3,428	3,278
	2,500-4,249 Grams	49825	50841	52956	54367	56,099	59,413	59,190	56,383	51,864	48,772
	>4,249 Grams	1927	1953	1910	1878	1,866	2,104	2,064	1,903	1,668	1,606
	Unknown	22	17	21	15	5	7	7	3	5	4

Maricopa County Ten-Year Health Trends

Table 2.09a Infant Mortality by Race/Ethnicity of Mother, 2001-2010 (Linked)

Race/Ethnicity of Mother	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
White	164	168	138	151	155	139	159	144	129	113	1,460
Hispanic	130	148	172	186	172	207	186	142	118	127	1,588
African American	34	20	26	21	21	42	37	51	45	36	333
American Indian	20	10	18	11	11	7	10	8	13	10	118
Asian	7	9	12	13	13	7	10	28	17	1	117
Other/Unknown	4	0	1	4	1	2	0	1	1	18	32
Total	359	355	367	386	373	404	402	374	323	305	3,648

Table 2.09b Infant Mortality Rates by Race/Ethnicity of Mother, 2001-2010 (Linked)
Infant Mortality per 1,000 Live Births

Race/Ethnicity of Mother	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
White	6.2	6.4	5.2	5.6	5.7	4.9	5.9	5.5	5.2	4.6	5.5
Hispanic	5.4	5.9	6.4	6.8	6.0	6.8	5.9	4.9	4.6	5.7	5.9
African American	16.8	10.1	11.9	8.7	8.1	14.8	12.2	16.3	14.0	11.2	12.5
American Indian	13.2	6.4	11.2	6.4	6.3	3.6	5.2	4.4	7.5	6.3	6.9
Asian	4.6	5.4	6.5	6.6	6.4	3.0	4.0	11.5	7.2	0.4	5.6
Other/Unknown	-	-	-	-	-	-	-	-	-	-	-
Total	6.5	6.3	6.2	6.4	6.0	6.1	6.1	6.0	5.6	5.6	6.1

Note: See Technical Notes at the end of this report for an explanation of linked and unlinked data.

Maricopa County Ten-Year Health Trends

Table 2.10a Infant Mortality by Age of Mother, 2001-2010 (Linked)

Age of Mother	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
<20	57	65	57	67	63	67	52	62	44	37	571
20-29	182	172	201	205	208	214	213	187	176	176	1,934
30-39	113	109	96	102	89	114	124	109	92	84	1,032
40 and Older	7	9	13	12	13	9	13	16	11	8	111
Total	359	355	367	386	373	404	402	374	323	305	3,648

Table 2.10b Infant Mortality Rates by Age of Mother, 2001-2010 (Linked)
Infant Mortality per 1,000 Live Births

Age of Mother	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
<20	7.9	9.5	8.2	9.5	8.7	8.5	6.7	6.1	7.0	6.9	8.2
20-29	6.0	5.6	6.2	6.3	6.1	5.9	6.0	5.3	5.8	6.2	6.0
30-39	6.7	6.2	5.2	5.2	4.5	5.5	5.9	4.5	4.7	4.4	5.3
40 and Older	6.1	8.0	10.6	9.0	10.0	6.4	9.8	7.9	7.6	5.6	8.3
Total	6.5	6.3	6.2	6.4	6.0	6.1	6.1	0.0	5.6	5.6	6.1

Table 2.11a Infant Mortality by Educational Level of Mother, 2001-2010 (Linked)

Educational Level of Mother	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
Less Than 6 th Grade	4	6	13	7	9	7	11	9	5	3	74
6 th – 11 th Grade	114	115	109	142	125	137	133	103	83	79	1,140
High School Diploma	111	102	118	108	113	127	105	139	114	94	1,131
College or Higher	110	122	117	121	120	128	142	118	119	124	1,221
Unknown	20	10	10	8	6	5	11	5	2	5	82
Total	359	355	367	386	373	404	402	374	323	305	3,648

Note: See Technical Notes at the end of this report for an explanation of linked and unlinked data.

Maricopa County Ten-Year Health Trends

Table 2.11b Infant Mortality Rates by Educational Level of Mother, 2001-2010 (Linked)
Infant Mortality per 1,000 Live Births

Educational Level of Mother	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
Less Than 6 th Grade	3.7	5.7	10.6	6.2	8.3	5.4	9.5	8.9	6.4	4.1	7.0
6 th – 11 th Grade	7.1	7.1	6.3	8.1	7	7.4	7.2	6.3	6.1	7.0	7.0
High School Diploma	7.7	6.7	7.7	6.9	6.8	7.0	5.8	7.9	7.0	6.0	6.9
College or Higher	4.9	5.3	4.8	4.8	4.6	4.6	5.2	4.3	4.5	4.7	4.8
Unknown	15.6	8.3	9.6	9	10.4	8.3	13.7	9.2	6.5	14.7	10.8
Total	6.5	6.3	6.2	6.4	6.0	6.1	6.1	6.0	5.6	5.6	6.1

Table 2.12a Infant Mortality by Birthweight, 2001-2010 (Linked)

Birthweight	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
<1500 Grams	181	196	180	212	197	215	199	189	174	152	1,895
1500-2499 Grams	58	38	57	70	52	54	63	64	44	40	540
2500-4249 Grams	113	117	126	103	121	127	136	118	100	109	1,170
>4249 Grams	3	3	2	0	2	3	4	3	4	3	27
Unknown	4	1	2	1	1	5	0	0	1	1	16
Total	359	355	367	386	373	404	402	374	323	305	3,648

Table 2.12b Infant Mortality Rates by Birthweight, 2001-2010 (Linked)
Infant Mortality per 1,000 Live Births

Birthweight	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
<1500 Grams	300.7	291.2	267.5	288.4	268.0	272.2	243.3	264.7	252.2	264.3	270.5
1500-2499 Grams	17.9	12.2	16.6	19.8	14.8	14.0	16.4	17.5	12.8	12.2	15.5
2500-4249 Grams	2.3	2.3	2.4	1.9	2.2	2.1	2.3	2.1	1.9	2.2	2.2
>4249 Grams	1.6	1.5	1.0	0	1.1	1.4	1.9	1.6	2.4	1.9	1.4
Unknown	181.8	58.8	95.2	66.7	200.0	714.3	0	0	200.0	250.0	150.9
Total	6.5	6.3	6.2	6.4	6.0	6.1	6.1	6.0	5.6	5.6	6.1

Note: See Technical Notes at the end of this report for an explanation of linked and unlinked data.

Maricopa County Ten-Year Health Trends

Table 2.13 Infant Mortality and Rates by Age of Infant, 2001-2010 (Linked & Unlinked)

Infant Mortality		Year									
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Linked Data	Neonatal (≤ 28 Days)	253	241	251	271	249	277	286	254	220	198
	Postnatal (> 28 Days)	106	114	116	115	124	127	116	120	103	107
	Total	359	355	367	386	373	404	402	374	323	305
Unlinked Data	Neonatal (≤ 28 Days)	259	244	253	274	253	278	297	257	222	200
	Postnatal (> 28 Days)	112	117	116	122	129	128	120	124	107	111
	Total	371	361	369	396	382	406	417	381	329	311

Infant Mortality Rates per 1,000 Live Births		Year									
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Linked Data	Neonatal (≤ 28 Days)	4.5	4.3	4.3	4.5	4.0	4.2	4.3	4.1	3.8	3.7
	Postnatal (> 28 Days)	1.9	2.0	2.0	1.9	2.0	1.9	1.8	1.9	1.8	2.0
	Total	6.5	6.3	6.2	6.4	6.0	6.1	6.1	6.0	5.6	5.6
Unlinked Data	Neonatal (≤ 28 Days)	4.7	4.3	4.3	4.5	4.1	4.2	4.5	4.1	3.9	3.7
	Postnatal (> 28 Days)	2.0	2.1	2.0	2.0	2.1	1.9	1.8	2.0	1.9	2.0
	Total	6.7	6.4	6.3	6.5	6.1	6.1	6.3	6.1	5.7	5.7

Note: See Technical Notes at the end of this report for an explanation of linked and unlinked data.

Maricopa County Ten-Year Health Trends

Table 2.14a Infant Mortality by Age of Infant and Race/Ethnicity of Mother, 2001-2010 (Linked)

Linked Infant Mortality		Year									
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Neonatal (≤ 28 Days)	White	115	120	92	107	102	101	107	91	82	75
	Hispanic	95	101	127	133	123	140	142	100	84	83
	African American	26	10	17	14	11	23	23	33	28	23
	American Indian	10	3	6	5	4	8	6	5	11	5
	Asian	3	7	8	10	8	4	8	24	14	0
	Other/Unknown	4	0	1	2	1	1	0	0	1	12
	Total	253	241	251	271	249	277	286	254	220	198
Postnatal (> 28 Days)	White	49	48	46	44	53	38	52	53	47	38
	Hispanic	35	47	45	53	49	63	43	41	34	44
	African American	8	10	9	7	10	19	14	18	17	13
	American Indian	10	7	12	6	7	3	4	3	2	5
	Asian	4	2	4	3	5	3	2	4	3	1
	Other/Unknown	0	0	0	2	0	1	0	1	0	6
	Total	106	114	116	115	124	127	116	120	103	107

Note: See Technical Notes at the end of this report for an explanation of linked and unlinked data.

Maricopa County Ten-Year Health Trends

Table 2.14b Infant Mortality Rates by Age of Infant and Race/Ethnicity of Mother, 2001-2010 (Linked)
Infant Mortality per 1,000 Live Births

Linked Infant Mortality		Year									
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Neonatal (≤ 28 Days)	White	4.4	4.6	3.5	4.0	3.8	3.6	4.0	3.5	3.3	3.1
	Hispanic	4.0	4.0	4.7	4.9	4.3	4.6	4.5	3.5	3.3	3.7
	African American	12.9	5.1	7.8	5.8	4.3	8.1	7.6	10.5	8.7	7.2
	American Indian	6.6	1.9	3.7	2.9	2.3	4.1	3.1	2.7	6.4	3.2
	Asian	2.0	4.2	4.4	5.1	4.0	1.7	3.2	9.8	6.0	0.0
	Other/Unknown	-	-	-	-	-	-	-	-	-	-
	Total	4.5	4.3	4.3	4.5	4.0	4.2	4.3	4.1	3.8	3.7
Postnatal (> 28 Days)	White	1.9	1.8	1.7	1.6	2.0	1.3	1.9	2.0	1.9	1.6
	Hispanic	1.5	1.9	1.7	1.9	1.7	2.1	1.4	1.4	1.3	2.0
	African American	4.0	5.1	4.1	2.9	3.9	6.7	4.6	5.7	5.3	4.0
	American Indian	6.6	4.5	7.4	3.5	4.0	1.6	2.1	1.6	1.2	3.2
	Asian	2.7	1.2	2.2	1.5	2.5	1.3	0.8	1.6	1.3	0.4
	Other/Unknown	-	-	-	-	-	-	-	-	-	-
	Total	1.9	2.0	2.0	1.9	2.0	1.9	1.8	1.9	1.8	2.0

Note: See Technical Notes at the end of this report for an explanation of linked and unlinked data.

Maricopa County Ten-Year Health Trends

Table 2.15a Infant Mortality by Race/Ethnicity of Infant, 2001-2010 (Unlinked)

Race/Ethnicity of Infant	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
White	145	157	129	141	142	142	132	122	122	90	1,322
Hispanic	164	166	192	210	189	203	225	167	131	150	1,797
African American	34	24	29	28	27	43	40	51	53	35	364
American Indian	18	6	12	6	10	12	9	8	11	6	98
Asian	7	8	7	8	13	4	7	20	12	3	89
Other/Unknown	3	0	0	3	1	0	0	2	0	27	36
Total	371	361	369	396	382	406	417	370	329	311	3,712

Table 2.15b Infant Mortality Rates by Race/Ethnicity of Infant, 2001-2010 (Unlinked)
Infant Mortality per 1,000 Live Births

Race/Ethnicity of Infant	Year										Total
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
White	5.5	6.0	4.9	5.3	5.2	5.0	4.9	4.6	4.9	3.7	5.0
Hispanic	6.8	6.6	7.2	7.7	6.4	6.7	7.2	5.8	5.1	6.7	6.6
African American	16.8	12.1	13.3	11.6	10.5	15.1	13.2	16.3	16.5	10.9	13.7
American Indian	11.9	3.8	7.4	3.5	5.7	6.2	4.7	4.2	6.4	3.8	5.7
Asian	4.6	4.8	3.8	4.1	6.4	1.7	2.8	8.2	5.1	1.3	4.3
Other/Unknown	-	-	-	-	-	-	-	-	-	-	-
Total	6.7	6.4	6.3	6.5	6.1	6.1	6.3	6.0	5.7	5.7	6.2

Note: See Technical Notes at the end of this report for an explanation of linked and unlinked data.

Maricopa County Ten-Year Health Trends

**Table 2.16a Primary Diagnosis Groups, Inpatient Hospitalizations, 2006-2010
Number of Discharges**

Primary Diagnosis		Inpatient Discharges					Total
		2006	2007	2008	2009	2010	
Infectious and parasitic diseases	Septicemia	4,564	5,612	6,838	7,713	9,482	34,209
	Other Infectious and parasitic diseases	7,032	7,048	7,164	7,511	7,962	36,717
	All	11,596	12,660	14,002	15,224	17,444	70,926
Neoplasms	Neoplasms - Other Malignant	8,596	8,729	8,726	8,625	8,501	43,177
	Malignant Neoplasm of large intestine & rectum	1,305	1,417	1,392	1,380	1,341	6,835
	Malignant neoplasm of trachea, bronchus & lung	1,523	1,467	1,499	1,548	1,499	7,536
	Malignant neoplasm of breast	713	679	706	768	770	3,636
	Neoplasms - Benign	3,820	3,834	3,793	3,850	3,595	18,892
	Neoplasms - Other	487	484	540	611	612	2,734
	All	16,444	16,610	16,656	16,782	16,318	82,810
Endocrine, nutritional and metabolic diseases, and immunity disorders	Diabetes mellitus	5,150	5,503	5,678	6,258	6,378	28,967
	Volume depletion (dehydration)	189	181	191	195	235	991
	Other Endocrine, nutritional and metabolic diseases, and immunity disorders	7,061	7,653	8,865	9,077	8,558	41,214
	All	12,400	13,337	14,734	15,530	15,171	71,172
Diseases of the blood and blood-forming organs	Diseases of the blood and blood-forming organs	3,242	3,731	3,829	4,255	4,618	19,675
Mental disorders	Psychoses	8,496	7,399	7,384	7,254	7,506	38,039
	Alcohol dependence syndrome	394	255	272	426	424	1,771
	Other Mental disorders	1,967	1,654	1,563	1,721	1,906	8,811
	All	10,857	9,308	9,219	9,401	9,836	48,621
Diseases of the nervous system and sense organs	Diseases of the nervous system and sense organs	6,721	7,823	8,863	9,150	9,916	42,473

(Continued)

Maricopa County Ten-Year Health Trends

(Table 2.16a Continued)

Primary Diagnosis		Inpatient Discharges					Total
		2006	2007	2008	2009	2010	
Diseases of the circulatory system	Heart disease	6,332	7,097	9,564	10,584	11,590	45,167
	Acute myocardial infarction	5,252	5,169	5,293	5,107	5,360	26,181
	Coronary atherosclerosis	11,935	10,972	10,150	9,395	7,593	50,045
	Other ischemic heart disease	405	369	331	344	335	1,784
	Cardiac dysrhythmias	7,602	8,042	8,975	9,031	9,466	43,116
	Congestive heart failure	6,835	6,058	3,742	2,746	2,280	21,661
	Cerebrovascular disease	9,408	9,446	9,932	9,935	10,179	48,900
	Other Diseases of the circulatory system	9,642	10,019	10,724	11,067	11,373	52,825
	All	57,411	57,172	58,711	58,209	58,176	289,679
Diseases of the respiratory system	Acute bronchitis and bronchiolitis	2,412	2,466	2,805	2,774	3,148	13,605
	Pneumonia	11,028	9,461	9,673	10,527	10,077	50,766
	Chronic bronchitis	3,439	3,392	4,580	5,020	5,230	21,661
	Asthma	4,162	4,343	4,895	5,528	5,327	24,255
	Other Diseases of the respiratory system	9,871	9,692	11,080	12,035	10,738	53,416
	All	30,912	29,354	33,033	35,884	34,520	163,703
Diseases of the digestive system	Appendicitis	4,786	5,108	5,189	5,202	5,061	25,346
	Noninfectious enteritis and colitis	3,423	3,391	3,417	3,675	4,031	17,937
	Cholelithiasis	638	655	621	665	896	3,475
	Other Diseases of the digestive system	29,427	30,534	31,317	33,629	36,017	160,924
	All	38,274	39,688	40,544	43,171	46,005	207,682
Diseases of the genitourinary system	Calculus of kidney and ureter	1,680	1,756	2,068	2,338	2,663	10,505
	Other Diseases of the genitourinary system	18,733	19,915	20,664	20,755	20,304	100,371
	All	20,413	21,671	22,732	23,093	22,967	110,876

(Continued)

Maricopa County Ten-Year Health Trends

(Table 2.16a Continued)

Primary Diagnosis		Inpatient Discharges					Total
		2006	2007	2008	2009	2010	
Diseases of the skin and subcutaneous tissue	Cellulitis and abscess	7,236	7,602	8,184	8,587	9,198	40,807
	Other Diseases of the skin and subcutaneous tissue	1,225	1,128	1,195	1,272	1,311	6,131
	All	8,461	8,730	9,379	9,859	10,509	46,938
Diseases of the musculoskeletal system and connective tissue	Osteoarthritis and allied disorders	8,448	8,932	9,317	10,146	10,796	47,639
	Intervertebral disc disorders	2,548	2,763	2,786	2,998	3,176	14,271
	Other - Diseases of the musculoskeletal system and connective tissue	8,836	8,707	9,072	9,375	10,266	46,256
	All	19,832	20,402	21,175	22,519	24,238	108,166
Congenital anomalies	Congenital anomalies	1,773	1,881	1,855	1,812	1,578	8,899
Certain conditions originating in the perinatal period	Certain conditions originating in the perinatal period	3,239	2,971	2,817	2,462	2,130	13,619
Symptoms, signs, and ill-defined conditions	Other Symptoms, signs, and ill-defined conditions	25,298	22,652	22,229	21,354	23,295	114,828
Injury and poisoning	Fracture of neck of femur	3,328	3,075	3,163	3,319	3,326	16,211
	Fractures, all other sites	9,208	9,504	9,240	9,749	10,020	47,721
	Poisonings	3,248	3,704	4,104	4,304	4,601	19,961
	Other Injury and poisoning	20,099	21,055	20,539	21,714	22,952	106,359
	All	35,883	37,338	37,046	39,086	40,899	190,252
Other healthcare encounters	Rehab Services	2,231	3,498	3,570	5,293	4,142	18,734
	Other healthcare encounters	3,243	3,242	3,168	3,242	2,978	15,873
	All	5,474	6,740	6,738	8,535	7,120	34,607
Unknown		29	0	1	1	0	31
Total		308,259	312,068	323,563	336,327	344,740	1,624,957

Maricopa County Ten-Year Health Trends

**Table 2.16b Primary Diagnosis Groups, Inpatient Hospitalizations, 2006-2010
Crude Hospitalization Rate per 100,000 Residents**

Primary Diagnosis		Inpatient Discharges				
		2006	2007	2008	2009	2010
Infectious and parasitic diseases	Septicemia	125.3	151.2	181.3	202.8	248.4
	Other Infectious and parasitic diseases	193.0	189.9	190.0	197.5	208.6
	All	318.3	341.1	371.3	400.2	457.0
Neoplasms	Neoplasms - Other Malignant	236	235.2	231.4	226.7	222.7
	Malignant Neoplasm of large intestine & rectum	35.8	38.2	36.9	36.3	35.1
	Malignant neoplasm of trachea, bronchus & lung	41.8	39.5	39.8	40.7	39.3
	Malignant neoplasm of breast	19.6	18.3	1.7	20.2	20.2
	Neoplasms - Benign	104.9	103.3	100.6	101.2	94.2
	Neoplasms - Other	13.4	13.0	14.3	16.1	16.0
	All	451.4	447.5	441.7	441.2	427.5
Endocrine, nutritional and metabolic diseases, and immunity disorders	Diabetes mellitus	141.4	148.3	150.6	164.5	167.1
	Volume depletion (dehydration)	5.2	4.9	5.1	5.1	6.2
	Other Endocrine, nutritional and metabolic diseases, and immunity disorders	193.8	206.2	235.1	238.6	224.2
	All	340.4	359.3	390.7	408.3	397.4
Diseases of the blood and blood-forming organs	Diseases of the blood and blood-forming organs	89.0	100.5	101.5	111.9	121.0
Mental disorders	Psychoses	233.2	199.3	195.8	190.7	196.6
	Alcohol dependence syndrome	10.8	6.9	7.2	11.2	11.1
	Other Mental disorders	54.0	44.6	41.4	45.2	49.9
	All	298.0	250.8	244.5	247.1	257.7
Diseases of the nervous system and sense organs	Diseases of the nervous system and sense organs	184.5	210.8	235.0	240.6	259.8

(Continued)

Maricopa County Ten-Year Health Trends

(Table 2.16b Continued)

Primary Diagnosis		Inpatient Discharges				
		2006	2007	2008	2009	2010
Diseases of the circulatory system	Heart disease	173.8	191.2	253.6	278.2	303.6
	Acute myocardial infarction	144.2	139.3	140.4	134.3	140.4
	Coronary atherosclerosis	327.6	295.6	269.2	247.0	198.9
	Other ischemic heart disease	11.1	9.9	8.8	9.0	8.8
	Cardiac dysrhythmias	208.7	216.7	238.0	237.4	248.0
	Congestive heart failure	187.6	163.2	99.2	72.2	59.7
	Cerebrovascular disease	258.3	254.5	263.4	261.2	266.7
	Other Diseases of the circulatory system	264.7	269.9	284.4	290.9	297.9
	All	1,576.00	1,540.20	1,556.90	1,530.30	1,524.10
Diseases of the respiratory system	Acute bronchitis and bronchiolitis	66.2	66.4	74.4	72.9	82.5
	Pneumonia	302.7	254.9	256.5	276.8	264.0
	Chronic bronchitis	94.4	91.4	121.5	132.0	137.0
	Asthma	114.3	117.0	129.8	145.3	139.6
	Other Diseases of the respiratory system	27.0	261.1	293.8	316.4	281.3
	All	848.6	790.8	876	943.4	904.3
Diseases of the digestive system	Appendicitis	131.4	137.6	137.6	136.8	132.6
	Noninfectious enteritis and colitis	94.0	91.4	90.6	96.6	105.6
	Cholelithiasis	17.5	17.6	16.5	17.5	23.5
	Other Diseases of the digestive system	807.8	822.6	830.5	884.1	943.6
	All	1,050.7	1,069.2	1,075.1	1,135.0	1,205.2
Diseases of the genitourinary system	Calculus of kidney and ureter	46.1	47.3	54.8	61.5	69.8
	Other Diseases of the genitourinary system	514.2	536.5	548.0	545.6	531.9
	All	560.4	583.8	602.8	607.1	601.7
Diseases of the skin and subcutaneous tissue	Cellulitis and abscess	198.6	204.8	217.0	225.7	241.0
	Other Diseases of the skin and	33.6	30.4	31.7	33.4	34.3
	All	232.3	235.2	248.7	259.2	275.3
Diseases of the musculoskeletal system and connective tissue	Osteoarthritis and allied disorders	231.9	240.6	247.1	266.7	282.8
	Intervertebral disc disorders	69.9	74.4	73.9	78.8	83.2
	Other - Diseases of the musculoskeletal	242.6	234.6	240.6	246.5	268.9
	All	544.4	549.6	561.5	592.0	635.0

(Continued)

Maricopa County Ten-Year Health Trends

(Table 2.16b Continued)

Primary Diagnosis		Inpatient Discharges				
		2006	2007	2008	2009	2010
Congenital anomalies	Congenital anomalies	48.7	50.7	49.2	47.6	41.3
Certain conditions originating	Certain conditions originating in the perinatal	88.9	80.0	74.7	64.7	55.8
Symptoms, signs, and ill-	Other Symptoms, signs, and ill-defined	694.4	610.2	589.5	561.4	610.3
Injury and poisoning	Fracture of neck of femur	91.4	82.8	83.9	87.3	87.1
	Fractures, all other sites	252.8	256	245	256.3	262.5
	Poisonings	89.2	99.8	108.8	113.2	120.5
	Other Injury and poisoning	551.7	567.2	544.6	570.9	601.3
	All	985.0	1,005.9	982.4	1,027.6	1,071.5
Other healthcare encounters	Rehab Services	61.2	94.2	94.7	139.2	108.5
	Other healthcare encounters	89	87.3	84	85.2	78
	All	150.3	181.6	178.7	224.4	186.5
Unknown	Unknown	0.8	0	0.0	0.0	0
Total		8,461.9	8,407.1	8,580.2	8,841.9	9,031.4

Maricopa County Ten-Year Health Trends

**Table 2.17a Primary Diagnosis Groups, Emergency Department, 2006-2010
Number of Discharges**

Primary Diagnosis		Emergency Department					Total
		2006	2007	2008	2009	2010	
Infectious and parasitic diseases	Septicemia	62	87	91	77	104	421
	Other Infectious and parasitic diseases	22,467	24,462	24,818	30,090	22,126	123,963
	All	22,529	24,549	24,909	30,167	22,230	124,384
Neoplasms	Neoplasms - Other Malignant	293	353	282	324	355	1,607
	Malignant Neoplasm of large intestine & rectum	17	26	24	13	33	113
	Malignant neoplasm of trachea, bronchus & lung	62	65	63	80	70	340
	Malignant neoplasm of breast	29	23	24	35	33	144
	Neoplasms - Benign	420	530	473	533	582	2,538
	Neoplasms - Other	124	108	116	101	91	540
	All	945	1,105	982	1,086	1,164	5,282
Endocrine, nutritional and metabolic diseases, and immunity disorders	Diabetes mellitus	4,416	5,135	5,299	5,370	5,407	25,627
	Volume depletion (dehydration)	35	38	35	24	37	169
	Other Endocrine, nutritional and metabolic diseases, and immunity disorders	8,036	8,709	9,513	9,301	9,122	44,681
	All	12,487	13,882	14,847	14,695	14,566	70,477
Diseases of the blood and blood-forming organs	Diseases of the blood and blood-forming organs	2,215	2,620	2,880	2,940	3,167	13,822
Mental disorders	Other Mental disorders	16,731	18,973	19,661	20,863	24,344	100,572
	Psychoses	3,586	4,347	4,584	4,836	5,893	23,246
	Alcohol dependence syndrome	829	1,139	1,239	1,201	1,483	5,891
	All	21,146	24,459	25,484	26,900	31,720	129,709
Diseases of the nervous system and sense organs	Diseases of the nervous system and sense organs	54,567	61,235	64,280	63,634	61,737	305,453

(Continued)

Maricopa County Ten-Year Health Trends

(Table 2.17a Continued)

Primary Diagnosis		Emergency Department					Total
		2006	2007	2008	2009	2010	
Diseases of the circulatory system	Heart disease	369	390	449	452	484	2,144
	Acute myocardial infarction	409	359	390	371	364	1,893
	Coronary atherosclerosis	118	92	249	267	458	1,184
	Other ischemic heart disease	567	452	518	481	496	2,514
	Cardiac dysrhythmias	4,468	4,381	4,673	4,567	4,763	2,852
	Congestive heart failure	1,239	1,249	1,128	995	1,028	5,639
	Cerebrovascular disease	1,422	1,526	1,534	1,497	1,616	7,595
	Other Diseases of the circulatory system	9,100	10,117	10,995	11,339	12,204	53,755
	All	17,692	18,566	19,936	19,969	21,413	97,576
Diseases of the respiratory system	Acute bronchitis and bronchiolitis	10,298	12,429	15,174	15,160	12,915	65,976
	Pneumonia	12,254	11,943	11,740	14,087	11,944	61,968
	Chronic bronchitis	1,560	1,705	1,938	1,754	1,976	8,933
	Asthma	13,696	14,974	15,581	16,428	16,174	76,853
	Other Diseases of the respiratory system	61,288	65,915	68,978	83,517	63,189	342,887
	All	99,096	106,966	113,411	130,946	106,198	556,617
Diseases of the digestive system	Appendicitis	495	572	712	749	1,016	3,544
	Noninfectious enteritis and colitis	10,464	10,517	11,353	10,930	10,856	54,120
	Cholelithiasis	53	61	88	89	91	382
	Other Diseases of the digestive system	38,870	43,552	44,699	46,634	48,672	222,427
	All	49,882	54,702	56,852	58,402	60,635	280,473
Diseases of the genitourinary system	Calculus of kidney and ureter	9,266	10,435	10,751	10,868	10,705	52,025
	Other Diseases of the genitourinary system	45,382	50,893	51,543	53,002	55,414	256,234
	All	54,648	61,328	62,294	63,870	66,119	308,259
Complications of pregnancy, childbirth, & the puerperium	29,025	32,139	31,401	30,830	29,694	153,089	
Diseases of the skin and subcutaneous tissue	Cellulitis and abscess	23,916	25,006	24,534	23,835	24,405	121,696
	Other Diseases of the skin and subcutaneous tissue	16,052	16,683	17,061	16,783	17,081	83,660
	All	39,968	41,689	41,595	40,618	41,486	205,356

(Continued)

Maricopa County Ten-Year Health Trends

(Table 2.17a Continued)

Primary Diagnosis		Emergency Department					Total
		2006	2007	2008	2009	2010	
Diseases of the musculoskeletal system and connective tissue	Osteoarthritis and allied disorders	435	516	535	507	559	2,552
	Intervertebral disc disorders	885	940	1,076	1,085	1,089	5,075
	Other - Diseases of the musculoskeletal system and connective tissue	60,228	63,785	66,502	68,997	73,763	333,275
	All	61,548	65,241	68,113	70,589	75,411	340,902
Congenital anomalies	Congenital anomalies	223	286	305	301	274	1,389
Certain conditions originating in the perinatal period	Certain conditions originating in the perinatal period	1,722	2,037	1,998	1,697	1,658	9,112
Symptoms, signs, and ill-defined conditions	Headache	17,997	20,129	21,314	23,120	25,007	107,567
	Abdominal Pain	48,573	53,742	59,165	61,377	69,326	292,183
	Chest Pain	30,309	31,287	37,265	39,610	45,259	183,730
	Fever	17,627	19,847	20,047	25,805	17,805	101,131
	Nausea/vomiting	16,536	18,247	18,656	20,888	22,293	96,620
	Other Symptoms, signs, and ill-defined conditions	73,002	74,646	79,225	82,578	84,673	394,124
	All	204,044	217,898	235,672	253,378	264,363	1,175,355
Injury and poisoning	Fracture of neck of femur	235	257	236	209	207	1,144
	Fractures, all sites	30,442	31,361	31,389	30,333	30,882	154,407
	Poisonings	8,226	9,229	9,607	10,320	10,797	48,179
	Injury and poisoning	188,075	195,392	194,242	196,842	201,705	976,256
	All	226,978	236,239	235,474	237,704	243,591	1,179,986
Newborn Infant	Newborn Infant	10	14	8	5	13	50
Other healthcare encounters	Rehab Services	22,672	21,630	21,055	23,134	23,947	112,438
	Other healthcare encounters	0	0	1	3	0	4
	All	22,672	21,630	21,056	23,137	23,947	112,442
Unknown		248	24	18	1	2	293
Total		921,645	986,609	1,021,515	1,070,869	1,069,388	5,070,026

Maricopa County Ten-Year Health Trends

**Table 2.17b Primary Diagnosis Groups, Emergency Department, 2006-2010
Crude Rates per 100,000 Residents**

Primary Diagnosis		Emergency Department				
		2006	2007	2008	2009	2010
Infectious and parasitic diseases	Septicemia	1.7	2.3	2.4	2.0	2.7
	Other Infectious and parasitic diseases	616.7	659.0	658.1	791.1	579.7
	All	618.4	661.3	660.5	793.1	582.4
Neoplasms	Neoplasms - Other Malignant	8.0	9.5	7.5	8.5	9.3
	Malignant Neoplasm of large intestine & rectum	0.5	0.7	0.6	0.3	0.9
	Malignant neoplasm of trachea, bronchus & lung	1.7	1.8	1.7	2.1	1.8
	Malignant neoplasm of breast	0.8	0.6	0.6	0.9	0.9
	Neoplasms - Benign	11.5	14.3	12.5	14.0	15.2
	Neoplasms - Other	3.4	2.9	3.1	2.7	2.4
	All	25.9	29.8	26.0	28.6	30.5
Endocrine, nutritional and metabolic diseases, and immunity disorders	Diabetes mellitus	121.2	138.3	140.5	141.2	141.7
	Volume depletion (dehydration)	1.0	1.0	0.9	0.6	1.0
	Other Endocrine, nutritional and metabolic diseases, and immunity disorders	220.6	234.6	252.3	244.5	239.0
	All	342.8	374.0	393.7	386.3	381.6
Diseases of the blood and blood-forming organs	Diseases of the blood and blood-forming organs	60.8	70.6	76.4	77.3	83.0
Mental disorders	Psychoses	98.4	117.1	121.6	127.1	154.4
	Alcohol dependence syndrome	22.8	30.7	32.9	31.6	38.9
	Other Mental disorders	459.3	511.1	521.4	548.5	637.8
	All	580.5	658.9	675.8	707.2	831.0
Diseases of the nervous system and sense organs	Diseases of the nervous system and sense organs	1,497.9	1,649.7	1,704.6	1,672.9	1,617.4

(Continued)

Maricopa County Ten-Year Health Trends

(Table 2.17b Continued)

Primary Diagnosis		Emergency Department				
		2006	2007	2008	2009	2010
Diseases of the circulatory system	Heart disease	10.1	10.5	11.9	11.9	12.7
	Acute myocardial infarction	11.2	9.7	10.3	9.8	9.5
	Coronary atherosclerosis	3.2	2.5	6.6	7.0	12.0
	Other ischemic heart disease	15.6	12.2	13.7	12.6	13.0
	Cardiac dysrhythmias	122.7	118.0	123.9	120.1	124.8
	Congestive heart failure	34.0	33.6	29.9	26.2	26.9
	Cerebrovascular disease	39.0	41.1	40.7	39.4	42.3
	Other Diseases of the circulatory system	249.8	272.6	291.6	298.1	319.7
	All	485.7	500.2	528.7	525.0	561.0
Diseases of the respiratory system	Acute bronchitis and bronchiolitis	282.7	334.8	402.4	398.6	338.3
	Pneumonia	336.4	321.7	311.3	370.3	312.9
	Chronic bronchitis	42.8	45.9	51.4	46.1	51.8
	Asthma	376.0	403.4	413.2	431.9	423.7
	Other Diseases of the respiratory system	1,682.4	1,775.7	1,829.1	2,195.6	1,655.4
	All	2,720.3	2,881.7	3,007.4	3,442.5	2,782.2
Diseases of the digestive system	Appendicitis	13.6	15.4	18.9	19.7	26.6
	Noninfectious enteritis and colitis	287.2	283.3	301.1	287.3	284.4
	Cholelithiasis	1.5	1.6	2.3	2.3	2.4
	Other Diseases of the digestive system	1,067.0	1,173.3	1,185.3	1,226.0	1,275.1
	All	1,369.3	1,473.7	1,507.6	1,535.4	1,588.5
Diseases of the genitourinary system	Calculus of kidney and ureter	254.4	281.1	285.1	285.7	280.4
	Other Diseases of the genitourinary system	1,245.8	1,371.1	1,366.8	1,393.4	1,451.7
	All	1,500.1	1,652.2	1,651.9	1,679.1	1,732.2
Complications of pregnancy, childbirth, & the puerperium	796.8	865.8	832.7	810.5	777.9	

(Continued)

Maricopa County Ten-Year Health Trends

(Table 2.17b Continued)

Primary Diagnosis		Emergency Department				
		2006	2007	2008	2009	2010
Diseases of the skin and subcutaneous tissue	Cellulitis and abscess	656.5	673.7	650.6	626.6	639.4
	Other Diseases of the skin and subcutaneous tissue	440.6	449.4	452.4	441.2	447.5
	All	1,097.2	1,123.1	1,103.0	1,067.8	1,086.8
Diseases of the musculoskeletal system and connective tissue	Osteoarthritis and allied disorders	11.9	13.9	14.2	13.3	14.6
	Intervertebral disc disorders	24.3	25.3	28.5	28.5	28.5
	Other - Diseases of the musculoskeletal system and connective tissue	1,653.3	1,718.4	1,763.5	1,813.9	1,932.4
	All	1,689.5	1,757.6	1,806.2	1,855.8	1,975.6
Congenital anomalies	Congenital anomalies	6.1	7.7	8.1	7.9	7.2
Certain conditions originating in the perinatal period	Certain conditions originating in the perinatal period	47.3	54.9	53.0	44.6	43.4
Symptoms, signs, and ill-defined conditions	Headache	494.0	542.3	565.2	607.8	655.1
	Abdominal Pain	1,333.4	1,447.8	1,568.9	1,613.6	1,816.2
	Chest Pain	832.0	842.9	988.2	1,041.3	1,185.7
	Fever	483.9	534.7	531.6	678.4	466.5
	Nausea/vomiting	453.9	491.6	494.7	549.1	584.0
	Other Symptoms, signs, and ill-defined conditions	2,004.0	2,011.0	2,100.9	2,170.9	2,218.2
	All	5,601.2	5,870.2	6,249.5	6,661.2	6,925.7
Injury and poisoning	Fracture of neck of femur	6.5	6.9	6.3	5.5	5.4
	Fractures, all other sites	835.7	844.9	832.4	797.4	809.0
	Poisonings	225.8	248.6	254.8	271.3	282.9
	Other Injury and poisoning	5,162.8	5,263.9	5,150.9	5,174.9	5,284.2
	All	6,230.7	6,364.3	6,244.2	6,249.2	6,381.5
Newborn Infant	Newborn Infant	0.3	0.4	0.2	0.1	0.3
Other healthcare encounters	Rehab Services	622.4	582.7	558.3	608.2	627.4
	Other healthcare encounters	-	-	-	0.1	-
	All	622.4	582.7	558.4	608.3	627.4
Unknown		6.8	0.6	0.5	-	0.1
Total		25,299.9	26,579.2	27,088.3	28,152.8	28,015.6

Maricopa County Ten-Year Health Trends

**Table 2.18 Selected Risk Factors from BRFSS, 2006-2010
Percent of Adult Population**

Risk Factors (Percent)	2006	2007	2008	2009	2010
Self-Reported Health Status (Excellent)	22.7	23.5	18.8	22.0	25.6
Life Satisfaction (Very satisfied, Satisfied)	96.3	95.6	96.4	94.5	92.4
Activities Limited %yes	16.9	16.5	21.5	16.8	19.3
Special Equipment Required %yes	4.8	5.3	7.3	5.5	6.3
Asthma %yes	15.3	13.1	15.3	16.1	13.8
Cardiovascular Disease (Heart Attack) %yes	4.3	4.3	4.0	4.2	4.5
Cardiovascular Disease (Angina) %yes	4.5	4.8	4.3	2.8	3.6
Cardiovascular Disease (Stroke) %yes	2.4	2.7	2.2	2.1	2.7
High blood pressure (Hypertension) %yes	N/A	23.1	N/A	24.5	N/A
Diabetes %yes	8.7	8.3	6.7	7.7	8.1
Obesity (BMI) %yes	21.2	25.1	25.1	24.1	22.9
Seat Belt Use %(sometimes, seldom, never)	82.4	N/A	94.0	N/A	89.0
Alcohol Abuse - Binge Drinking %yes	15.9	16.3	16.1	15.5	14.8
Alcohol Abuse - Heavy Drinking %yes	6.0	5.7	4.1	5.7	4.6
Cigarette Smoking %yes	18.2	19.7	15.2	14.2	13.9
Fruit And Vegetable Consumption (>5 per day) %yes	24.8	28.8	23.8	26.7	24.8
Influenza Vaccination (ages 65+) %yes	64.6	69.1	73.3	72.7	68.8
Physical Activity – (Met Standards) %yes	50.9	47.6	51.4	50.0	52.9

(Continued)

Maricopa County Ten-Year Health Trends

(Table 2.18 Continued)

Risk Factors (Percent)	2006	2007	2008	2009	2010
Cholesterol (checked within past five years) %yes	N/A	71.0	N/A	73.6	N/A
Colorectal Cancer Screening (Sigmoidoscopy & Colonoscopy) (Age 50+)	56.7	62.6	66.4	N/A	60.8
Routine Mammography (40+ %never had)	10.0	N/A	9.0	N/A	9.4
Health Care Coverage (%Insured)	80.7	81.4	81.8	85.7	87.8
Have Usual Source Of Health Care %yes	70.1	74.1	74.5	79.8	81.5
Could Not Afford Needed Health Care %yes	12.9	13.1	13.7	14.4	11.2

III. Technical Notes

Population Statistics

Population statistics are shown in Tables 1.01 through 1.11. This report used the most recent U.S. Census data and estimates for population figures at the time of analysis.

- The Maricopa County population for 2001 through 2009 is from the U.S. Census Bureau, 2000-2010 Intercensal Population Estimates by Age, Sex, Race and Hispanic Origin released September 2011. This is at [Population Estimates: County Intercensal Estimates \(2000-2010\): Annual Population Estimates - U.S Census Bureau](http://www2.census.gov/census_2010/03-Demographic_Profile/Arizona/az2010.dp.zip). The population for 2010 is from the U.S. Census Bureau, 2010 Census by Age, Sex, Race and Hispanic Origin released July 21, 2011. This is at http://www2.census.gov/census_2010/03-Demographic_Profile/Arizona/az2010.dp.zip
- The Arizona population for 2001 through 2009 is from the U.S. Census Bureau, 2000-2010 Intercensal Population Estimates and can be found <http://www.census.gov/popest/data/intercensal/state/ST-EST00INT-02.html>. The population for 2010 is from the U.S. Census Bureau 2010 Census and can be found http://www2.census.gov/census_2010/03-Demographic_Profile/Arizona/az2010.dp.zip
- The Phoenix population for 2001-2009 is from http://www.census.gov/popest/cities/files/SUB-EST2009_ALL.csv

The population estimates used in this report are from the U.S. Census and based on the Census 2000 and Census 2010 population. Previous reports used population estimates based only on the Census 2000 population. The population for a community, such as Maricopa County, changes as a result of births, deaths, and migration (moving into or out of the location). Although it is relatively easy to measure the change in population due to births and deaths, it is more difficult to measure the change due to migration. Due to this difficulty, previous reports used an overestimation of the population. Many of the rates shown use population estimates as the denominator (e.g., 50 cases of disease for every 100,000 people). Therefore, a rate that uses an overestimated population will make the disease burden appear smaller than it truly is and vice versa. If comparing the rates reported in this report to the rates reported in earlier reports, they may see an increase in the rates for each year. Rates reported in this report are more reliable than rates reported in previous reports for 2001 through 2009.

This report defines “Hispanic” as all respondents listing Hispanic, either alone or in combination with any race. The Hispanic and American Indian categories in this report are slightly different from previous Maricopa County Health Status Reports. Previously, American Indians who identified their origin as either Hispanic or non-Hispanic were counted as American Indians. In this report, only American Indians who identified their origin as non-Hispanic were placed in the American Indian category. Hence, all individuals whose origin was Hispanic, regardless of race, were placed in the Hispanic group. In order to allow comparisons across years, the same method was used for all years (2001-2010) in this report. The table below shows how the U.S. Census variables of “origin” and “race” are used for categorization in this report.

Category Used in This Report	U.S. Census Code “Race”	U.S. Census Code “Origin”
White	Race=1 (White Alone)	Origin=1 (Non-Hispanic)
African American	Race=2 (Black Alone)	Origin=1 (Non-Hispanic)
American Indian	Race=3 (American Indian or Alaska Native Alone)	Origin=1 (Non-Hispanic)

(Table Continues)

Asian	Race=4 (Asian Alone) or 5 (Native Hawaiian or Other Pacific Islander Alone)	Origin=1 (Non-Hispanic)
Multiple	Race=6 (Two or More Races)	Origin=1 (Non-Hispanic)
Hispanic	Race=1,2,3,4,5,6	Origin=2 (Hispanic)

Mortality (Death) Statistics

Mortality (death) statistics are shown in Tables **2.01a** through **2.04**. Any crude death rate can be calculated by taking the number of deaths from any mortality table in this report and dividing it by the appropriate age, sex, race/ethnicity, or total population denominator found in Tables **1.01** through **1.10**. In tables where rates are shown, “0” means there were no cases/deaths in that category. However, when the number “0.0” is shown, it means that there were fewer than .05 deaths per 100,000 residents. By definition, deaths due to SIDS only occur in infants; as a result, these numbers are divided by the number of live births, to produce a rate per 1,000 live births.

All data on mortality statistics are from death certificates included in the Arizona Department of Health Services (ADHS) final annual files. The data presented in this report include Maricopa County residents only. This includes Maricopa County residents who died in Maricopa County and residents who died elsewhere. Non-Maricopa County residents who died in Maricopa County are not included.

During the course of routine data review, several deaths each year were identified as being in one county even though their city and ZIP codes indicated that they lived in a different county. For these discrepant cases, final classification in this report was based on the address of the resident. (The address is determined by reviewing the street address, city, county, and ZIP code). One death in 2000 and two deaths that occurred in 2006 were updated with accurate causes of death. In addition, 5 duplicate records in 2005 were identified and deleted and one death in 2010 was voided. Therefore, the numbers presented in this report may not precisely match those presented by ADHS in other reports.

For both mortality and morbidity (communicable disease), rates for some racial/ethnic populations such as American Indians, Asians, and African Americans are high compared to other groups. Because these groups have relatively small populations in Maricopa County (under 150,000 residents as shown in Tables **1.01** through **1.10**), these high rates may represent very few deaths/cases. Among small populations, rates are less stable so one case or death can cause a big increase or decrease in the rates. Therefore, it is advisable to examine the actual number of cases or deaths in addition to the rates.

In Table **2.01a**, deaths due to unintentional injury can be found by adding two categories – “motor vehicle collisions” and “all other accidents and adverse effects.” The total for unintentional injuries in this report is higher than the figure reported by ADHS because deaths from “complications of medical and surgical care” are included in this report. This convention follows the national model for classifying unintentional injuries. “Complications of medical and surgical care” include deaths from medical devices, adverse effects related to correct doses of therapeutic medications, and misadventures to patients during surgical or medical care (ICD-10 Y40-Y84, Y88). Table **2.02a** presents the number of deaths by year meeting the criteria for ‘complications of medical and surgical care.’

Tables **2.06b**, **2.08b**, **2.09b**, **2.14b**, and **2.15b** do not provide a rate for the category labeled “Other/Unknown Race/Ethnicity.” Since the U.S. Census Bureau does not report data on people of ‘Other/Unknown Race/Ethnicity,’ there is no denominator to use for calculating the rate.

Tables **2.01a** through **2.02b** show sharp changes in the number and rates of deaths attributed to unintentional falls, unintentional poisonings, and motor vehicle accidents. These sharp changes have resulted in a shift in the order of leading causes of accidental deaths. Historically, motor vehicle accidents have been the most common, but in 2008 it dropped to the third highest rank for Maricopa County residents. These changes may be artifacts of the mortality specification and coding systems and not real changes in the actual incidence of these events or they may be due to changes in the incidence of these events. This decrease in motor vehicle accidents is being seen nationwide. Causes of death due to external events, as opposed to those intrinsically related to disease processes, are subject to many sources of variability:

- Causes of deaths may be translated into International Classification of Diseases, 10th Revision (ICD-1) codes by different method, i.e., electronically or manually
- The medical examiners' specification of the sequence of the causes of death may change from year to year in systematic, non-random ways
- Changes in NCHS rules regarding the manner, or intentionality, of death may have caused misclassification of intentional injuries such as suicides and as unintentional, or accidental injuries

Further investigation into the reasons for these changes for the other causes of death is ongoing.

Unless otherwise noted, all deaths are attributed to one underlying condition, based on death certificate information, using the rules of the International Classification of Diseases, Tenth Revision (ICD-10). Causes of death are classified by ICD-10 codes. The codes used for each category are listed in Table **3.2** below.

Table 3.2 ICD-10 Codes Used for This Report

Cause	ICD-10 Codes Used
<i>Clostridium difficile</i>	A04.7
Salmonella & Other Intestinal Infections	A01-A04.6, A04.8-A04.9 A06-A09
Tuberculosis	A16-A19
Septicemia	A40-A41
Syphilis	A50-A53
HIV Disease	B20-B24
Viral Hepatitis	B15-B19
Coccidioidomycosis	B38
Other Mycoses	B35-B37, B39-B49
Malignant Neoplasms (Cancer)	C00-C97
Malignant Neoplasm of the Lip, Oral Cavity, and Pharynx	C00-C14
Malignant Neoplasm of the Stomach	C16
Malignant Neoplasm of the Colon	C18-C21
Malignant Neoplasm of the Pancreas	C25
Malignant Neoplasm of Bronchus, Lung, or Trachea	C33-C34
Malignant Melanoma of Skin	C43
Malignant Neoplasm of the Breast	C50
Malignant Neoplasm of the Uterus, Cervix, Ovary	C53-C56
Malignant Neoplasm of the Ovary	C56
Malignant Neoplasm of the Prostate	C61
Malignant Neoplasm of the Testes	C62
Malignant Neoplasm of Urinary Organs	C64-C68
Malignant Neoplasm of the Meninges, Brain, and Central Nervous System	C70-C72

(Table Continues)

(Table 3.2, Continued)

Non-Hodgkins Lymphoma	C82-C85
Leukemia	C91-C95
Other Malignant Neoplasms	C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C60, C62-C63, C69-C81, C88, C90, C96-97
Anemias	D56-D64
Diabetes	E10-E14
Nutritional Deficiencies	E40-E64
Obesity	E66
Mental & Behavioral Disorders Due to the Use of Alcohol	F10
Parkinson's Disease	G20-G21
Alzheimer's	G30
Multiple Sclerosis	G35
Epilepsy	G40-G41
Major Cardiovascular Disease	I00-I78
Disease of Heart	I00-I09, I11, I13, I20-I51
Hypertensive Heart Disease	I11, I13
Ischemic Heart Disease	I20-I25
Acute Myocardial Infarction	I21-I22
Other Heart Disease	I00-I09, I26-I51
Congestive Heart Failure	I50
Coronary Heart Disease	I11, I20-I25
Primary Hypertension	I10, I12
Cerebrovascular Diseases	I60-I69
Atherosclerosis	I70
Other Circulatory	I71-I78
Influenza & Pneumonia	J10-J18
Chronic Lower Respiratory	J40-J47
Emphysema	J43
Asthma	J45-J46
Peptic Ulcer	K25-K28
Liver Disease, including chronic liver disease, cirrhosis, alcoholic liver disease, and other chronic liver disease	K70, K73-K74
Alcoholic Liver Disease	K70
Rheumatoid Arthritis	M05-M08
Lupus	M32
Osteoporosis	M80-M81
Nephritis, nephritic syndrome and nephrosis	N00-N07, N17-N19, N25-N27
Pregnancy, childbirth, and the puerperium	O00-O99
Perinatal Conditions	P00-P96
Disorders Related to Short Gestation and Low Birth Weight (LBW)	P07
Congenital Malformations	Q00-Q99
Congenital Malformations of the Circulatory System	Q20-Q28
Chromosomal Abnormalities	Q90-Q99
SIDS (Sudden Infant Death Syndrome)	R95
III Defined Disease Conditions (Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified, excluding SIDS)	R00-R94, R96-R99

(Table Continues)

(Table 3.2, Continued)

All Other Diseases	A00-A09, A20-A49, A54-B19, B25-B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15N20-N23, N28-N98
Motor Vehicle Collisions	V02-V04, V09.0, V09.2, V12-V14, V19.0 - V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0 V89.2
All Other Accidents & Adverse Effects	V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9 V90-X29, X31-X59, Y40-Y86, Y88
Falls	W00-W19
Exposure to Excessive Natural Heat	X30
Accidental Poisoning	X40-X49
Accidental Drowning (Excludes drowning involving water transportation)	W65-W74
Legal Intervention	Y35, Y890
Accidental Discharge of Firearms	W32-W34
Discharge of Firearms, Undetermined Intent	Y22-Y24
Complications of Medical & Surgical Care (Excludes accidental overdose of a drug or drugs administered in error)	Y40-Y84, Y88
Suicide	U03, X60-X84, Y87.0
Homicide	U01-U02, X85-Y09, Y87.1
All Other External Causes	Y10-Y36, Y87.2, Y89
Unknown Causes	No ICD code listed
Firearm Related	W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0
Drug Induced or Related	F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.8, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, F19.7-F19.9, X40-X44, X60-X64, X85, Y10-Y14
Alcohol Induced or Related	F10, G31.2, G62.1, I42.6, K29.2, K70, R78.0, X45, X65, Y15

Only the underlying cause of death is used for classification in this report. Although other causes may have contributed to death, the underlying cause of death is the cause that began the disease process that resulted in death. The underlying causes of death chosen for this report are based on the 113 selected causes of death reported by NCHS in their annual report. Due to an increase in the number of deaths due to *Clostridium difficile*, NCHS has also added this cause of death to their 113 selected causes of death. A few additional causes of death, like coccidioidomycosis, have been selected due to their importance in Arizona.

Tables **2.03a** and **2.03b** show deaths resulting directly (induced) and indirectly (related) from firearms, drugs, and alcohol. Drugs include prescription medications and illegal substances,

regardless of whether use was recreational or medicinal. Tobacco is considered a drug by the National Center for Health Statistics (NCHS). Drug-related deaths are listed both with and without tobacco-related deaths, because tobacco is not often considered to be a drug in the colloquial sense.

Induced deaths refer to cases in which the use of a firearm, drug, or alcohol contributed directly to the cause of death, i.e., death due to an overdose of drugs, or a fatal gunshot injury. Related deaths refer to cases in which the use of a drug or alcohol was listed on the death certificate, but the substance was not necessarily involved in the underlying cause of death, i.e., death due to dehydration resulting from environmental exposure, with chronic drug use noted elsewhere on the certificate.

Firearm, drug, and alcohol induced deaths are also included in a number of other categories, such as suicide, homicide, unintentional injury, etc. For example, a firearm induced death may also be classified as a suicide, homicide, or "other accident or adverse effect." An alcohol induced death may be attributed to a long or short term effect of alcohol, such as acute alcohol intoxication or alcoholic cardiomyopathy.

In 2010, the Arizona Department of Health Service Office of Vitals Records modified the death certificate to meet the recommendations of the 2003 Standard developed by the National Center for Health Statistics. Two of the changes directly impacted the data presented in this report, deaths due to pregnancy and deaths involving tobacco. Each of these changes will be discussed further below.

The tobacco use question asks if the cause of death is related to tobacco use. The certifier can select "Yes," "No," "Probably," or "Unknown." If either "Yes" or "Probably" is selected, the death will then have an ICD-10 code for tobacco. This new question caused a sharp increase in the number of deaths that are drug-related including tobacco. This increase is not necessarily due to more deaths being related to tobacco use, but rather by a change in identifying deaths due to tobacco use.

The pregnancy status question asks the certifier to select if the female decedent was "Pregnant at time of death," "Not pregnant but pregnant within 42 days of death," "Not pregnant but pregnant 43 days to 1 year before death," or not pregnant. The certifier can also select "Unknown." In 2010, there was an increase in the number of deaths to women due to pregnancy. The increase is not necessarily due to more pregnancy-related deaths, but rather by a change in identifying deaths of women who were pregnant in the last year prior to death.

Communicable Disease (Morbidity) Statistics

Communicable disease statistics are shown in Tables **2.04a** through **2.06**. Any morbidity rate, except for Streptococcal Group B Invasive disease, can be calculated by taking the number of cases from any communicable disease table in this report and dividing it by the appropriate age, gender, race/ethnicity, or total population denominator found in Tables **1.01** through **1.10**. Streptococcal Group B Invasive disease is only reportable in infants under 90 days; therefore, these numbers are divided by the number of live births, to produce a rate per 1,000 live births.

The data presented in this report include communicable diseases to residents of Maricopa County. This includes Maricopa County residents who acquired a disease in Maricopa County and residents who acquired a disease elsewhere. Non-Maricopa County residents are not included, even if they acquired a disease in Maricopa County. Other reports or press releases may show different morbidity rates because they include non-residents who acquired disease in Maricopa County or they exclude residents who were exposed outside of the county. For Hansen's disease only, tables include residents from various counties in Arizona, regardless of where the disease was acquired.

All data on communicable diseases are new cases for each specific year from the ADHS final annual data files. There are several exceptions: data on genital herpes, gonorrhea, Chlamydia, syphilis, and Hansen's disease are from MCDPH data files.

In previous Health Status Reports, hepatitis B and West Nile virus data were also obtained from the MCDPH. This report uses hepatitis B data for confirmed and probable acute cases from ADHS for 2006-2010. For 2007-2010, data for West Nile virus are from ADHS.

Data on tuberculosis, STDs, HIV, and AIDS may differ from other reports published by MCDPH and ADHS. Data on these diseases are in databases that may have been updated during the time between reports.

Communicable disease data include only confirmed cases, with the exception of West Nile virus, hepatitis B, and Hansen's disease. Data for Hansen's disease includes all confirmed, suspect, and probable cases diagnosed in Maricopa County, including diagnoses to non-county residents, as mentioned earlier. Data for hepatitis B includes confirmed and probable acute cases among Maricopa County residents in 2006-2010. Data for West Nile virus includes confirmed and probable cases among Maricopa County residents

Primary and secondary syphilis are shown as "Syphilis-Prim. and Sec." The "Syphilis - All others" category includes latent and congenital syphilis. These two categories can be added to determine the total number of syphilis cases. Congenital syphilis details may be found in Tables **2.05a** and **2.05b**.

All communicable disease statistics in this report are new cases for each specified year (incidence). The only exception is Hansen's disease for which the prevalence (all existing cases from all years) is shown. The figures presented for Hansen's disease differ from previous years due to the addition of several cases diagnosed in previous years but only recently available.

Data can be classified by date of onset, date of diagnosis or date of report to the health department. All diseases/conditions listed in this report are classified by the date of report to the health department. The only exceptions are HIV, AIDS, and Hansen's disease which are classified by the date of diagnosis.

The category "Encephalitis Viral" includes St. Louis encephalitis and all other types of viral encephalitis except for West Nile virus. This may differ somewhat from other reports that include only certain types of encephalitides.

Comparison of hepatitis B cases from 2007-2010 to previous years will show a decrease in the total number of cases. This decrease is most likely due to changes in the investigation of the disease and not due to a change in the communicability of the disease in Maricopa County.

A sharp decrease in the number of reported cases of genital herpes occurred in 2009. A review of the cases indicated a large decrease in the number of laboratory reported cases. Although no explanation for this decrease has been identified, it is not believed to be due to an actual decrease in the incidence of disease in the community.

In Tables **2.04a** and **2.04b**, the category labeled "All Others" includes all reportable diseases in the ADHS communicable disease database that are not listed previously on the table.

Beginning in April 2008, two diseases were added to the list of diseases that medical providers and laboratories must report: norovirus and respiratory syncytial virus (RSV). No counts exist for years earlier than 2008. Counts for RSV are much lower in 2008 because the number of RSV cases usually peak around January or February and reporting did not begin until April which was after the peak.

Nativity (Birth) Statistics

Nativity (birth) statistics are shown in Tables **2.07a** through **2.08**.

All data on natality are from the Arizona Department of Health Services (ADHS) final annual files. The data presented in this report are from birth certificates where the mother's county of residence is Maricopa County. This includes births that did not occur in Maricopa County. National Center for Health Statistics rules state that if a birth does not occur in the state of residency and the county and city are unknown, the city of residency is assigned to the largest city in the state of residency. For Arizona, the largest city is Phoenix. Therefore, some births that occurred outside of Arizona are included in Maricopa County's final year end statistics even though the county and city of residence are unknown. For further explanation, please see <http://www.cdc.gov/nchs/data/dvs/3amanual.pdf>.

During the course of routine data review, several births were identified as being in one county even though their city and ZIP codes indicated that they lived in a different county. For these discrepant cases, final classification in this report was based on the address of the resident. (The address is determined by reviewing the street address, city, county, and ZIP code). In addition, one record was identified as duplicate in 2005 and deleted. Therefore, the numbers presented in this report may not precisely match those presented by ADHS in other reports.

Adequate prenatal care is based on the Adequacy of Prenatal Care Utilization Index (APCU)¹. This index considers both the timing of prenatal care initiation and the number of visits after care was initiated, comparing the number of actual visits to the number of visits recommended by the American College of Obstetricians and Gynecologists. This index does not describe the quality of the care or adjust for maternal risk factors. Only singleton births (the birth of one baby rather than twins, triplets or other multiple births) are shown in these tables because twins and higher order births are typically higher risk pregnancies, and the index is not appropriate for summarizing their prenatal care usage.

- a) Inadequate: Prenatal care began after the fourth month of pregnancy or less than 50% of the expected prenatal care visits were attended
- b) Intermediate: Prenatal care began before the fourth month and 50 to 70% of the expected visits were attended
- c) Adequate: Prenatal care began prior to the fourth month and 80-109% of expected visits were attended
- d) Adequate plus: Prenatal care began prior to the fourth month of pregnancy and 110% or more of the expected visits were attended

Infants transferred from Banner Good Samaritan Hospital to Phoenix Children's Hospital have not been counted as transfers since the two hospitals share facilities, with Phoenix Children's Hospital providing Neonatal Intensive Care services to infants born at Banner Good Samaritan.

Infant Mortality Statistics

Infant mortality statistics are shown in Tables **2.09a** through **2.15b**.

Infant mortality statistics shown in this report are from linked and unlinked data as indicated in each table. An explanation of linked and unlinked data is presented below.

The infant mortality rates for older and younger maternal age groups (under 15 and over 45) may be high compared to other groups. These groups have relatively small populations in Maricopa County. Although rates may be high, they may represent only one or two cases in a given category. Therefore, it is advisable to check the raw numbers.

¹ Kotelchuck, M. An Evaluation of the Kessner Adequacy of Prenatal Care Index and a Proposed Adequacy of Prenatal Care Utilization Index, American Journal of Public Health, 1994; 84(9):1414-1420.

The following definitions related to reproductive health have been established by NCHS²:

- Birth or Live Birth³ – The complete expulsion or extraction from the mother of a product of human conception, irrespective of the duration of pregnancy or birthweight which, after such expulsion or extraction, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached.
- Fertility Rate – Number of live births during a calendar year per 1,000 women age 15 to 44.
- Births to Teenage Mothers – Live births occurring to females under age twenty.
- Birth Weight – The weight of a neonate determined immediately after delivery or as soon thereafter as possible.
- Low Birthweight – Any neonate weighing less than 2,500 grams at birth (less than 5 pounds, 8 ounces).
- Very Low Birthweight – Any neonate weighing less than 1,500 grams at births (less than 3 pounds, 4 ounces).
- Preterm – Any neonate whose birth occurs through the end of the last day of the 37th week (259th day), following onset of the last menstrual period.
- Infant Death – Any death at any time from birth up to, but not including, the first year of age (<365 days).
- Infant Mortality Rate – Number of infant deaths per 1,000 live births.
- Neonatal Mortality Rate – Number of deaths to infants at or under 28 days of age, per 1,000 live births.
- Postnatal (Postneonatal) Mortality Rate – Number of deaths to infants between 29 days and 365 days after birth, per 1,000 live births.
- Unlinked Infant Mortality – The number of infant deaths in a given calendar year, as determined from mortality records.
- Linked Infant Mortality – Whenever possible, infant death certificate data are linked to birth certificate information to determine parental, demographic and birth data. Not all infant deaths can be linked (up to 3% are lost to follow-up). In this report, MCDPH created a linked death cohort such that one calendar year of infant death data linked back to the birth data from the current or prior calendar year.

Hospital Discharge Statistics

Hospital Discharge statistics are shown in Tables **2.16a** through **2.17b**.

Hospital Discharge Data (HDD) is submitted by Arizona Hospitals to Arizona Department of Health Services (ADHS). Data is submitted by half years, with the first half (January 1 – June 30) is due August 15 of the same year and the second half (July 1 – December 31) is due by February 15th of the following year. ADHS then prepares the data for public release and the data are released between 3 and 6 months after collection. This dataset only contains hospitalizations

² NCHS guidelines were adopted from those established by the World Health Organization (WHO).

³ The Arizona statute defining a live birth follows this definition.

from facilities within the state of Arizona. Hospitalizations of Maricopa Residents that occur outside of Arizona are not captured.

HDD provides an address for each patient but does not include information about the county of residence. In order to select Maricopa County Residents, an algorithm was derived to determine residence based on city, state, and ZIP code. The list of cities and ZIP codes within Maricopa County are based on a national ZIP code database that is updated regularly with new ZIP codes and cities (U.S. ZIP code Database – Business version from: <http://www.zip-codes.com/zip-code-database.asp>). The algorithm is available by contacting the Office of Epidemiology by email at epidemiology@mail.maricopa.gov.

All federal, state, military, and Department of Veteran Affairs' hospitals are excluded. No behavioral health hospitals reported data during this time period. Long-term acute care (LTAC) and rehabilitation hospitals are excluded from this report because patients in these settings are usually transferred from another facility to the LTAC or rehabilitation hospital and have an average stay of 25 days or longer.

The data reported in this report includes hospital discharge data from 2006-2010. Data from earlier years were unavailable.

Hospitalization Discharges represent the number of discharges from facilities within Arizona during a calendar year and are not unique patients. Therefore, if a person is hospitalized multiple times in a calendar year, that person will be represented multiple times in the dataset. Additionally, there is the probability that one patient may have two or more billing discharges for the same hospital encounter as a result of transfers between facilities and/or transfers between units of the same facility.

In HDD, ICD-9-CM codes are used to identify the reasons for hospitalization. These codes are then grouped into categories for analysis. For this report, only the primary diagnosis codes are analyzed. Records without a primary diagnosis code or with an unknown code are classified as unknown.

Table 3.3 ICD-9-CM Codes Used for This Report

Category of Principal Diagnoses	ICD-9-CM Code
Infectious and parasitic diseases	001–139
Septicemia	38
Neoplasms	140–239
Malignant neoplasms	140–208,230–234
Malignant neoplasm - large intestine & rectum	153–154,197.5
Malignant neoplasm - trachea, bronchus, & lung	162,176.4,197.0,197.3
Malignant neoplasm - breast	174–175,198.81
Benign neoplasms	210–229
Endocrine, nutritional & metabolic diseases, & immunity disorders	240–279
Diabetes mellitus	250
Volume depletion (dehydration)	277
Diseases of the blood and blood-forming organs	280–289
Mental disorders	290–319
Psychoses	290–299
Alcohol dependence syndrome	303
Diseases of the nervous system and sense organs	320–389

(Table Continues)

(Table 3.3, Continued)

Category of Principal Diagnoses	ICD-9-CM Code
Diseases of the circulatory system	390–459
Heart disease	391–392.0, 393–398, 402, 404, 410–416, 420–429
Acute myocardial infarction	410
Coronary atherosclerosis	414
Other ischemic heart disease	411–413, 414.1–414.9
Cardiac dysrhythmias	427
Congestive heart failure	428.0
Cerebrovascular disease	430–438
Diseases of the respiratory system	460–519
Acute bronchitis and bronchiolitis	466
Pneumonia	480–486
Chronic bronchitis	491
Asthma	493
Diseases of the digestive system	520–579
Appendicitis	540–543
Noninfectious enteritis and colitis	555–558
Cholelithiasis	574
Diseases of the genitourinary system	580–629
Calculus of kidney and ureter	592
Complications of pregnancy, childbirth, and the puerperium	630–677
Diseases of the skin and subcutaneous tissue	680–709
Cellulitis and abscess	681–682
Diseases of the musculoskeletal system and connective tissue	710–739
Osteoarthritis and allied disorders	715
Intervertebral disc disorders	722
Congenital anomalies	740–759
Certain conditions originating in the perinatal period	760–779
Symptoms, signs, and ill-defined conditions	780–799
Injury and poisoning	800–999
Fractures, all sites	800–829
Fracture of neck of femur	820
Poisonings	960–989
Other healthcare encounters	990–999

Behavioral (BRFSS) Statistics

Behavioral Risk Factor Surveillance System (BRFSS) data is presented in table 2.18.

All data on BRFSS statistics are from data from the Arizona Department of Health Services (ADHS) final annual files. The data presented in this report includes information collected from Maricopa County residents during telephone survey interviews conducted by the ADHS. Arizona residents that were interviewed but lived in another Arizona county were not included.

The BRFSS is a state-based, cross-sectional, random telephone survey of household residents aged 18 and older conducted throughout the year. It has been conducted in Arizona since 1982. The BRFSS gathers information on risk factors related to both chronic and infectious diseases.

The data reported in this report includes BRFSS data from 2006-2010. Data from earlier years were unavailable. Each question in the table is explained below. Unless otherwise stated below, respondents may respond with either “Yes” or “No” to each question. Respondents can also respond to all questions with “Don’t know/not sure” or they can refuse to answer.

Self-Reported Health Status is from the question that asks “Would you say that in general your health is: Excellent, Very Good, Good, Fair, or Poor.” Respondents that answered “Excellent” are reported.

Life Satisfaction is from the question that asks “In general, how satisfied are you with life; Very Satisfied, Satisfied, Dissatisfied, or Very Dissatisfied.” Respondents that answered “Very Satisfied” or “Satisfied” are reported.

Activity Limited is the question that asks “Are you limited in any way in any activities because of physical, mental, or emotional problems”? Respondents that answered “Yes” are reported.

Special Equipment Required is from the question that asks “Do you now have any health problem that requires you to use special equipment, such as a cane, wheelchair, a special bed, or special telephone?” Respondents that answered “Yes” are reported.

Asthma, Cardiovascular Disease (Heart Attack), Cardiovascular Disease (Angina), Cardiovascular Disease (Stroke), High Blood Pressure (Hypertension) and Diabetes are from similar questions that ask “Have you ever been told by a doctor that you have...?” Adults that responded “Yes” to each of the medical conditions are reported. Residents who reported being told they have diabetes does not include females who only had diabetes during a pregnancy and does not include respondents who stated they have been told they have pre-diabetes or borderline diabetes. The question asking if the respondent has ever been told they have high blood pressure was not asked every year. Years when the question was not asked are marked with “NA.”

Obesity is based on a calculated BMI (body mass index) from the respondent’s given height and weight. Individuals with a BMI 30 or greater are considered obese.

Seat Belt Use is from the question “How often do you use seat belts when you drive or ride in a car: Always, Nearly Always, Sometimes, Seldom, or Never?” Adults who wear a seat belt “Always” are reported. This question was not asked every year; years when it was not asked are marked with “N/A.”

Alcohol Abuse: Binge Drinking and Heavy Drinking are based on several questions. The first question asked “During the past 30 days, have you had at least one drink of any alcoholic beverage such as beer, wine, a malt beverage, or liquor?” If the respondent answered “Yes” they are then asked additional questions. *Binge Drinking* was determined by asking “Considering all types of alcoholic beverages, how many times during the past 30 days did you have X or more drinks on an occasion?” The value of X was 5 if the respondent was male and 4 if the respondent was female. *Binge Drinking* includes residents that had five or more drinks on one occasion for males, or four or more drinks on one occasion for females. *Heavy Drinking* was determined by asking two questions: “During the past 30 days, how many days per week or per month did you have at least one drink of any alcoholic beverage?” and “During the past 30 days, on the days when you drank, about how many drinks did you drink on average.” *Heavy Drinking* includes residents who had more than two drinks per day if male and more than one drink per day if female.

Cigarette Smoking is based on two questions. The first question is “Have you smoked at least 100 cigarettes in your entire life?” One hundred cigarettes is equivalent to five packs. If they answer “Yes” they are then asked the second question, “Do you now smoke cigarettes every day, some days, or not at all?” Adults who report smoking “Every day” or “Some days” are reported.

Fruit and Vegetable Consumption is calculated based on several questions: “How often do you drink fruit juices such as orange, grapefruit, or tomato?” “How often do you eat fruit, green salad, potatoes, and carrots?” and “Not counting carrots, potatoes or salad, how many servings of vegetables do you usually eat?” Residents who eat 5 or more servings of fruits and vegetables per day are shown.

Influenza Vaccination is from the question “During the past 12 months, have you had a flu shot?” Respondents who were 65 years old or older and said “Yes” are reported.

Physical Activity is calculated using several questions. The first question asks “In a usual week, do you do moderate activities for at least 10 minutes at a time, such as brisk walking, bicycling, vacuuming, gardening, or anything else that causes some increase in breathing or heart rate?” The second questions asks “Do you do vigorous activities for at least 10 minutes at a time, such as running, aerobics, heavy yard work, or anything else that causes large increases in breathing or heart rate?” The third question asks “How many days per week do you do these activities for at least 10 minutes at a time?” The final question asks “On days when you do these activities for at least 10 minutes at a time, how much total time per day do you spend doing these activities?” The last two questions are open ended questions. Based on these four questions, the amount and type of activity the respondent engages in weekly are calculated. It is recommended that an individual have 150 minutes of moderate intensity aerobic activity or 75 minutes of vigorous aerobic activity each week. Each individual is also recommended to have 2 days of muscle strengthening activity each week. Adults that met the recommended physical activity are shown.

Cholesterol is based on two questions. The first question asks the respondent “Have you ever had your blood cholesterol checked?” If they answered “Yes,” they were then asked the second question, “About how long has it been since you last had your blood cholesterol checked?” The respondent could answer “Within the past year,” “Within the past 2 years,” “Within the past 5 years,” or “5 or more years ago.” Adults who had their cholesterol checked within the past 5 years is reported. This question was not asked every year; years when it was not asked are marked with “N/A.”

Colorectal Cancer Screening is from the question that asks “Have you ever had either a sigmoidoscopy or colonoscopy?” Adults 50 years old or older who have ever had either a sigmoidoscopy or colonoscopy are shown. This question was not asked every year; years when it was not asked are marked with “N/A.”

Routine Mammography is from the question that asks “Have you ever had a mammogram?” Females 40 years old or older who have never had a mammogram are reported. This question was not asked every year; years when it was not asked are marked with “N/A.”

Health Care Coverage is from the question that asks “Do you have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicare?” Adults that report some type of health care coverage are reported.

Have Usual Source Of Health Care is from the question that asks “Do you have one person you think of as your personal doctor or health care provider?” Adults that answered “Yes, only one” or “More than one” are shown.

Could Not Afford Needed Health Care is from the question “Was there a time in the past 12 months when you needed to see a doctor but could not because of cost?” Adults that answered “Yes” are shown.

BRFSS data are weighted to account for unequal probabilities of being selected and to adjust numbers of those selected to reflect the actual state population estimates. Table 3.4 shows the number of individuals who responded in the affirmative (based on the specific answers already described) to the specified criteria. The total number of respondents per year are shown in the first row, next to “Total Residents Interviewed.”

**Table 3.4 Total Maricopa County Residents Fitting Question Criteria:
2006-2010 BRFSS**

Risk Factors	2006	2007	2008	2009	2010
Total Residents Interviewed	884	890	974	1,206	1,301
Self-Reported Health Status	202	198	188	252	269
Life Satisfaction	810	783	870	1,070	1,156
Activities Limited	192	185	257	263	343
Special Equipment Required	57	73	118	107	130
Asthma	138	133	141	177	185
Cardiovascular Disease (Heart Attack)	55	47	61	78	87
Cardiovascular Disease (Angina)	51	45	59	63	85
Cardiovascular Disease (Stroke)	40	32	42	49	61
High Blood Pressure	N/A	270	N/A	404	N/A
Diabetes	100	92	100	129	150
Obesity	173	194	225	272	279
Seat Belt Use	745	N/A	906	N/A	1,138
Alcohol Abuse-Binge Drinking	100	108	109	117	134
Alcohol Abuse-Heavy Drinking	48	43	45	71	58
Cigarette Smoking	138	149	128	144	168
Fruit and Vegetable Consumption	219	271	181	315	331
Influenza Vaccination (65+)	154	159	219	275	334
Physical Activity	386	416	423	537	583
Cholesterol	N/A	707	N/A	1,008	N/A
Colorectal Cancer Screening	285	296	378	N/A	603
Routine Mammography (40+)	35	N/A	103	N/A	151
Health Care Coverage	761	778	856	1,090	1,186
Have Usual Source of Health Care	710	723	787	1,020	1,132
Could Not Afford Needed Health Care	91	99	107	138	128

More Information

For more information on population and health statistics, please visit the following websites:

- Maricopa County Department of Public Health: <http://www.maricopa.gov/publichealth/default.aspx>
- Arizona Department of Health Services: www.hs.state.az.us
- Centers for Disease Control and Prevention, National Center for Health Statistics: www.cdc.gov/nchs
- United States Census Bureau: www.census.gov