

# Maricopa County Health Status Report 2009-2013



## Five Year Trends Reference Tables



Prepared by the Maricopa County Department of Public Health  
Office of Epidemiology  
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Maricopa County

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# Maricopa County Health Status Report 2009-2013

## Five Year Trends: Reference Tables

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# Introduction

This report provides health status information for the years 2009 to 2013 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: 6,008 residents of Maricopa County died due to cancer in 2013.\*
  - Communicable Disease Example: 443 residents of Maricopa County were diagnosed with a confirmed or probable case of Pertussis in 2013.
  - Natality (Birth) Example: There were 597 infants born with a very low birth weight (less than 1500 grams) in 2013.
  
- Rate or percentage of cases in the county
  - Mortality Disease Example: For every 100,000 residents of Maricopa County, 149.8 died due to cancer in 2013.\*
  - Communicable Disease Example: For every 100,000 residents of Maricopa County, 11.0 were diagnosed with Pertussis in 2013.
  - Natality (Birth) Example: Among all live births in 2013, 1.1% were born with a very low birth weight.

All data in this report are for calendar years 2009 through 2013.

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 2009-2013 Tables***

**Maricopa County Five-Year Trends Population Statistics**

**Table 1.01 Population Estimates – Age by Gender, Race/Ethnicity by Gender, and Age by Race/Ethnicity 2013**

**Age by Gender**

Age	Males		Females		Total	
	No.	%	No.	%	No.	%
0-4	138,798	7.0%	133,026	6.6%	271,824	6.8%
5-9	147,434	7.4%	141,785	7.0%	289,219	7.2%
10-14	146,393	7.4%	140,257	6.9%	286,650	7.1%
15-19	140,650	7.1%	132,809	6.6%	273,459	6.8%
20-24	145,812	7.3%	139,623	6.9%	285,435	7.1%
25-34	288,833	14.6%	278,922	13.8%	567,755	14.2%
35-44	268,916	13.6%	269,129	13.3%	538,045	13.4%
45-54	257,322	13.0%	262,621	13.0%	519,943	13.0%
55-64	208,470	10.5%	230,539	11.4%	439,009	10.9%
65-74	143,933	7.3%	165,136	8.2%	309,069	7.7%
75-84	72,811	3.7%	88,886	4.4%	161,697	4.0%
85+	24,801	1.2%	42,506	2.1%	67,307	1.7%
<b>Total</b>	<b>1,984,173</b>		<b>2,025,239</b>		<b>4,009,412</b>	

**Race/Ethnicity by Gender**

Race/Ethnicity	Males		Females	
	No.	%	No.	%
White	1,133,947	57.1%	1,173,715	58.0%
Hispanic	605,809	30.5%	597,412	29.5%
African American	100,329	5.1%	97,061	4.8%
Amer. Ind., Non-Hisp	30,940	1.6%	34,878	1.7%
Asian	74,489	3.8%	82,336	4.1%
Other/2+ Races	38,659	1.9%	39,837	2.0%
<b>Total</b>	<b>1,984,173</b>		<b>2,025,239</b>	

**Age by Race/Ethnicity**

Age	White		Hispanic		African American		American Indian		Asian		Other/2+ Races		Total No.
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
0-4	110,301	4.8%	118,816	9.9%	14,819	7.5%	5,681	8.6%	9,855	6.3%	12,352	15.7%	271,824
5-9	118,889	5.2%	127,890	10.6%	15,208	7.7%	5,537	8.4%	10,670	6.8%	11,025	14.0%	289,219
10-14	124,798	5.4%	121,809	10.1%	15,180	7.7%	5,128	7.8%	9,859	6.3%	9,876	12.6%	286,650
15-19	122,464	5.3%	112,770	9.4%	15,897	8.1%	5,012	7.6%	9,033	5.8%	8,283	10.6%	273,459
20-24	134,005	5.8%	109,234	9.1%	17,715	9.0%	6,972	10.6%	10,375	6.6%	7,134	9.1%	285,435
25-34	294,015	12.7%	190,599	15.8%	31,292	15.9%	12,553	19.1%	28,611	18.2%	10,685	13.6%	567,755
35-44	292,216	12.7%	171,319	14.2%	27,973	14.2%	9,288	14.1%	29,737	19.0%	7,512	9.6%	538,045
45-54	334,881	14.5%	125,493	10.4%	25,907	13.1%	7,554	11.5%	20,767	13.2%	5,341	6.8%	519,943
55-64	326,349	14.1%	71,244	5.9%	18,673	9.5%	4,734	7.2%	14,610	9.3%	3,399	4.3%	439,009
65-74	252,187	10.9%	34,685	2.9%	9,494	4.8%	2,291	3.5%	8,529	5.4%	1,883	2.4%	309,069
75-84	137,800	6.0%	14,589	1.2%	3,969	2.0%	804	1.2%	3,768	2.4%	767	1.0%	161,697
85+	59,757	2.6%	4,773	0.4%	1,263	0.6%	264	0.4%	1,011	0.6%	239	0.3%	67,307
<b>Total</b>	<b>2,307,662</b>		<b>1,203,221</b>		<b>197,390</b>		<b>65,818</b>		<b>156,825</b>		<b>78,496</b>		<b>4,009,412</b>

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2013.

**Maricopa County Five-Year Trends Population Statistics**

**Table 1.02 Population Estimates by Gender, Age, and Race/Ethnicity 2013**

<b>Females</b> <b>Age</b>	<b>White</b>		<b>Hispanic</b>		<b>African American</b>		<b>American Indian</b>		<b>Asian</b>		<b>Other/2+ Races</b>		<b>Total</b> <b>No.</b>
	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>	
0-4	53,738	4.6%	58,216	9.7%	7,230	7.4%	2,762	7.9%	4,973	6.0%	6,107	15.3%	133,026
5-9	58,229	5.0%	62,758	10.5%	7,357	7.6%	2,782	8.0%	5,329	6.5%	5,330	13.4%	141,785
10-14	60,849	5.2%	59,795	10.0%	7,237	7.5%	2,544	7.3%	4,958	6.0%	4,874	12.2%	140,257
15-19	59,100	5.0%	55,095	9.2%	7,607	7.8%	2,486	7.1%	4,473	5.4%	4,048	10.2%	132,809
20-24	65,975	5.6%	53,024	8.9%	8,457	8.7%	3,586	10.3%	4,912	6.0%	3,669	9.2%	139,623
25-29	72,028	6.1%	46,587	7.8%	7,645	7.9%	3,499	10.0%	6,580	8.0%	2,889	7.3%	139,228
30-34	72,386	6.2%	46,166	7.7%	7,444	7.7%	3,149	9.0%	7,839	9.5%	2,710	6.8%	139,694
35-39	67,675	5.8%	45,129	7.6%	6,742	6.9%	2,690	7.7%	7,900	9.6%	2,094	5.3%	132,230
40-44	76,882	6.6%	41,021	6.9%	6,887	7.1%	2,367	6.8%	7,868	9.6%	1,874	4.7%	136,899
45-49	79,290	6.8%	34,206	5.7%	6,399	6.6%	2,289	6.6%	6,011	7.3%	1,446	3.6%	129,641
50-54	89,761	7.6%	28,256	4.7%	6,445	6.6%	1,996	5.7%	5,181	6.3%	1,341	3.4%	132,980
55-59	88,145	7.5%	21,345	3.6%	5,240	5.4%	1,570	4.5%	4,503	5.5%	1,006	2.5%	121,809
60-64	83,024	7.1%	15,605	2.6%	4,167	4.3%	1,142	3.3%	3,966	4.8%	826	2.1%	108,730
65-69	75,637	6.4%	11,328	1.9%	2,946	3.0%	809	2.3%	3,003	3.6%	633	1.6%	94,356
70-74	58,201	5.0%	7,430	1.2%	2,155	2.2%	539	1.5%	2,037	2.5%	418	1.0%	70,780
75+	112,795	9.6%	11,451	1.9%	3,103	3.2%	668	1.9%	2,803	3.4%	572	1.4%	131,392
<b>Total</b>	<b>1,173,715</b>		<b>597,412</b>		<b>97,061</b>		<b>34,878</b>		<b>82,336</b>		<b>39,837</b>		<b>2,025,239</b>
<b>Males</b>													
0-4	56,563	5.0%	60,600	10.0%	7,589	7.6%	2,919	9.4%	4,882	6.6%	6,245	16.2%	138,798
5-9	60,660	5.3%	65,132	10.8%	7,851	7.8%	2,755	8.9%	5,341	7.2%	5,695	14.7%	147,434
10-14	63,949	5.6%	62,014	10.2%	7,943	7.9%	2,584	8.4%	4,901	6.6%	5,002	12.9%	146,393
15-19	63,364	5.6%	57,675	9.5%	8,290	8.3%	2,526	8.2%	4,560	6.1%	4,235	11.0%	140,650
20-24	68,030	6.0%	56,210	9.3%	9,258	9.2%	3,386	10.9%	5,463	7.3%	3,465	9.0%	145,812
25-29	75,518	6.7%	49,672	8.2%	8,330	8.3%	3,208	10.4%	7,071	9.5%	2,684	6.9%	146,483
30-34	74,083	6.5%	48,174	8.0%	7,873	7.8%	2,697	8.7%	7,121	9.6%	2,402	6.2%	142,350
35-39	68,465	6.0%	45,038	7.4%	7,111	7.1%	2,234	7.2%	7,187	9.6%	1,939	5.0%	131,974
40-44	79,194	7.0%	40,131	6.6%	7,233	7.2%	1,997	6.5%	6,782	9.1%	1,605	4.2%	136,942
45-49	79,048	7.0%	34,858	5.8%	6,548	6.5%	1,703	5.5%	5,147	6.9%	1,325	3.4%	128,629
50-54	86,782	7.7%	28,173	4.7%	6,515	6.5%	1,566	5.1%	4,428	5.9%	1,229	3.2%	128,693
55-59	81,418	7.2%	20,090	3.3%	5,376	5.4%	1,220	3.9%	3,421	4.6%	941	2.4%	112,466
60-64	73,762	6.5%	14,204	2.3%	3,890	3.9%	802	2.6%	2,720	3.7%	626	1.6%	96,004
65-69	67,464	5.9%	9,854	1.6%	2,705	2.7%	602	1.9%	1,990	2.7%	488	1.3%	83,103
70-74	50,885	4.5%	6,073	1.0%	1,688	1.7%	341	1.1%	1,499	2.0%	344	0.9%	60,830
75+	84,762	7.5%	7,911	1.3%	2,129	2.1%	400	1.3%	1,976	2.7%	434	1.1%	97,612
<b>Total</b>	<b>1,133,947</b>		<b>605,809</b>		<b>100,329</b>		<b>30,940</b>		<b>74,489</b>		<b>38,659</b>		<b>1,984,173</b>

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2013.

**Maricopa County Five-Year Trends Population Statistics**

**Table 1.03 Population Estimates – Age by Gender, Race/Ethnicity by Gender, and Age by Race/Ethnicity 2012**

**Age by Gender**

Age	Males		Females		Total	
	No.	%	No.	%	No.	%
0-4	139,924	7.2%	134,235	6.7%	274,159	7.0%
5-9	146,630	7.5%	140,381	7.0%	287,011	7.3%
10-14	144,728	7.4%	138,735	7.0%	283,463	7.2%
15-19	139,768	7.2%	131,531	6.6%	271,299	6.9%
20-24	145,910	7.5%	139,243	7.0%	285,153	7.2%
25-34	282,391	14.5%	274,841	13.8%	557,232	14.1%
35-44	266,104	13.6%	265,855	13.3%	531,959	13.5%
45-54	253,621	13.0%	259,903	13.0%	513,524	13.0%
55-64	202,252	10.4%	224,342	11.3%	426,594	10.8%
65-74	135,459	6.9%	154,693	7.8%	290,152	7.4%
75-84	69,976	3.6%	86,834	4.4%	156,810	4.0%
85+	23,425	1.2%	41,388	2.1%	64,813	1.6%
<b>Total</b>	<b>1,950,188</b>		<b>1,991,981</b>		<b>3,942,169</b>	

**Race/Ethnicity by Gender**

Race/Ethnicity	Males		Females	
	No.	%	No.	%
White	1,121,040	57.5%	1,161,501	58.3%
Hispanic	595,305	30.5%	586,689	29.5%
African American	96,631	5.0%	93,659	4.7%
Amer. Ind., Non-Hisp	29,434	1.5%	33,428	1.7%
Asian	71,216	3.7%	79,095	4.0%
Multiple Races	36,562	1.9%	37,609	1.9%
<b>Total</b>	<b>1,950,188</b>		<b>1,991,981</b>	

**Age by Race/Ethnicity**

Age	White		Hispanic		African American		American Indian		Asian		Multiple Races		Total No.
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
0-4	108,518	4.8%	124,913	10.6%	14,269	7.5%	5,195	8.3%	9,550	6.4%	11,714	15.8%	274,159
5-9	119,355	5.2%	126,666	10.7%	14,765	7.8%	5,322	8.5%	10,295	6.8%	10,608	14.3%	287,011
10-14	124,575	5.5%	119,883	10.1%	15,114	7.9%	4,858	7.7%	9,549	6.4%	9,484	12.8%	283,463
15-19	122,382	5.4%	111,759	9.5%	15,627	8.2%	5,066	8.1%	8,680	5.8%	7,785	10.5%	271,299
20-24	138,129	6.1%	106,013	9.0%	17,240	9.1%	6,926	11.0%	10,230	6.8%	6,615	8.9%	285,153
25-34	289,625	12.7%	187,978	15.9%	29,737	15.6%	11,867	18.9%	27,994	18.6%	10,031	13.5%	557,232
35-44	292,855	12.8%	167,974	14.2%	27,018	14.2%	8,856	14.1%	28,178	18.7%	7,078	9.5%	531,959
45-54	336,873	14.8%	119,416	10.1%	25,123	13.2%	7,355	11.7%	19,768	13.2%	4,989	6.7%	513,524
55-64	320,473	14.0%	67,018	5.7%	17,722	9.3%	4,373	7.0%	13,764	9.2%	3,244	4.4%	426,594
65-74	237,754	10.4%	32,072	2.7%	8,635	4.5%	2,108	3.4%	7,905	5.3%	1,678	2.3%	290,152
75-84	134,139	5.9%	13,991	1.2%	3,780	2.0%	712	1.1%	3,475	2.3%	713	1.0%	156,810
85+	57,863	2.5%	4,311	0.4%	1,260	0.7%	224	0.4%	923	0.6%	232	0.3%	64,813
<b>Total</b>	<b>2,282,541</b>		<b>1,181,994</b>		<b>190,290</b>		<b>62,862</b>		<b>150,311</b>		<b>74,171</b>		<b>3,942,169</b>

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2012.

## Maricopa County Five-Year Trends Population Statistics

### Table 1.04 Population Estimates by Gender, Age, and Race/Ethnicity, 2012

Females Age	White		Hispanic		African American		American Indian				Asian		Multiple Races		Total
	No.	%	No.	%	No.	%	Non-Hispanic		Hispanic		No.	%	No.	%	No.
							No.	%	No.	%					
0-4	53,063	4.6%	58,728	10.4%	6,897	7.4%	2,591	7.8%	2,429	11.9%	4,740	6.0%	5,787	15.4%	134,235
5-9	58,142	5.0%	59,834	10.6%	7,161	7.6%	2,679	8.0%	2,324	11.4%	5,116	6.5%	5,125	13.6%	140,381
10-14	60,730	5.2%	56,757	10.0%	7,270	7.8%	2,358	7.1%	2,122	10.4%	4,810	6.1%	4,688	12.5%	138,735
15-19	58,943	5.1%	52,426	9.3%	7,591	8.1%	2,522	7.5%	1,982	9.7%	4,245	5.4%	3,822	10.2%	131,531
20-24	67,942	5.8%	49,294	8.7%	8,117	8.7%	3,572	10.7%	2,133	10.4%	4,816	6.1%	3,369	9.0%	139,243
25-29	71,829	6.2%	44,158	7.8%	7,222	7.7%	3,372	10.1%	1,731	8.5%	6,624	8.4%	2,815	7.5%	137,751
30-34	70,932	6.1%	44,173	7.8%	7,128	7.6%	3,033	9.1%	1,593	7.8%	7,757	9.8%	2,474	6.6%	137,090
35-39	67,208	5.8%	43,210	7.6%	6,552	7.0%	2,537	7.6%	1,376	6.7%	7,682	9.7%	2,005	5.3%	130,570
40-44	77,358	6.7%	38,737	6.8%	6,574	7.0%	2,251	6.7%	1,214	5.9%	7,453	9.4%	1,698	4.5%	135,285
45-49	81,321	7.0%	31,631	5.6%	6,249	6.7%	2,238	6.7%	1,033	5.1%	5,643	7.1%	1,406	3.7%	129,521
50-54	89,221	7.7%	25,851	4.6%	6,289	6.7%	1,940	5.8%	894	4.4%	4,995	6.3%	1,192	3.2%	130,382
55-59	85,782	7.4%	19,522	3.4%	4,899	5.2%	1,431	4.3%	614	3.0%	4,304	5.4%	987	2.6%	117,539
60-64	82,548	7.1%	14,262	2.5%	4,030	4.3%	1,087	3.3%	379	1.9%	3,715	4.7%	782	2.1%	106,803
65-69	72,121	6.2%	10,210	1.8%	2,656	2.8%	751	2.2%	255	1.2%	2,719	3.4%	563	1.5%	89,275
70-74	53,801	4.6%	6,760	1.2%	1,978	2.1%	493	1.5%	156	0.8%	1,870	2.4%	360	1.0%	65,418
75+	110,560	9.5%	10,686	1.9%	3,046	3.3%	573	1.7%	215	1.1%	2,606	3.3%	536	1.4%	128,222
Total	1,161,501		566,239		93,659		33,428		20,450		79,095		37,609		1,991,981
<b>Males</b>															
0-4	55,455	4.9%	61,232	10.7%	7,372	7.6%	2,604	8.8%	2,524	11.7%	4,810	6.8%	5,927	16.2%	139,924
5-9	61,213	5.5%	62,061	10.8%	7,604	7.9%	2,643	9.0%	2,447	11.4%	5,179	7.3%	5,483	15.0%	146,630
10-14	63,845	5.7%	58,901	10.3%	7,844	8.1%	2,500	8.5%	2,103	9.8%	4,739	6.7%	4,796	13.1%	144,728
15-19	63,439	5.7%	55,283	9.6%	8,036	8.3%	2,544	8.6%	2,068	9.6%	4,435	6.2%	3,963	10.8%	139,768
20-24	70,187	6.3%	52,427	9.1%	9,123	9.4%	3,354	11.4%	2,159	10.0%	5,414	7.6%	3,246	8.9%	145,910
25-29	74,263	6.6%	46,661	8.1%	7,877	8.2%	2,919	9.9%	1,917	8.9%	6,751	9.5%	2,543	7.0%	142,931
30-34	72,601	6.5%	45,935	8.0%	7,510	7.8%	2,543	8.6%	1,810	8.4%	6,862	9.6%	2,199	6.0%	139,460
35-39	68,336	6.1%	42,533	7.4%	6,870	7.1%	2,153	7.3%	1,515	7.0%	6,685	9.4%	1,800	4.9%	129,892
40-44	79,953	7.1%	38,101	6.6%	7,022	7.3%	1,915	6.5%	1,288	6.0%	6,358	8.9%	1,575	4.3%	136,212
45-49	80,195	7.2%	32,477	5.7%	6,457	6.7%	1,655	5.6%	1,140	5.3%	4,985	7.0%	1,252	3.4%	128,161
50-54	86,136	7.7%	25,485	4.4%	6,128	6.3%	1,522	5.2%	905	4.2%	4,145	5.8%	1,139	3.1%	125,460
55-59	78,706	7.0%	18,002	3.1%	5,063	5.2%	1,098	3.7%	678	3.2%	3,225	4.5%	884	2.4%	107,656
60-64	73,437	6.6%	13,162	2.3%	3,730	3.9%	757	2.6%	399	1.9%	2,520	3.5%	591	1.6%	94,596
65-69	64,372	5.7%	8,731	1.5%	2,449	2.5%	551	1.9%	254	1.2%	1,888	2.7%	448	1.2%	78,693
70-74	47,460	4.2%	5,565	1.0%	1,552	1.6%	313	1.1%	141	0.7%	1,428	2.0%	307	0.8%	56,766
75+	81,442	7.3%	7,245	1.3%	1,994	2.1%	363	1.2%	156	0.7%	1,792	2.5%	409	1.1%	93,401
Total	1,121,040		573,801		96,631		29,434		21,504		71,216		36,562		1,950,188

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2012.

**Maricopa County Five-Year Trends Population Statistics**

**Table 1.05 Population Estimates – Age by Gender, Race/Ethnicity by Gender, and Age by Race/Ethnicity 2011**

**Age by Sex**

Age	Males		Females		Total	
	No.	%	No.	%	No.	%
0-4	142,451	7.4%	136,523	7.0%	278,974	7.2%
5-9	143,852	7.5%	138,011	7.0%	281,863	7.3%
10-14	143,262	7.5%	137,444	7.0%	280,706	7.2%
15-19	140,056	7.3%	131,119	6.7%	271,175	7.0%
20-24	143,255	7.5%	135,231	6.9%	278,486	7.2%
25-34	279,501	14.6%	272,190	13.9%	551,691	14.2%
35-44	263,992	13.7%	262,571	13.4%	526,563	13.6%
45-54	251,053	13.1%	257,937	13.2%	508,990	13.1%
55-64	197,641	10.3%	220,140	11.2%	417,781	10.8%
65-74	125,418	6.5%	143,259	7.3%	268,677	6.9%
75-84	67,775	3.5%	84,888	4.3%	152,663	3.9%
85+	22,519	1.2%	40,156	2.0%	62,675	1.6%
Total	1,920,775		1,959,469		3,880,244	

**Race/Ethnicity by Sex**

Race/Ethnicity	Males		Females	
	No.	%	No.	%
White	1,110,778	57.8%	1,149,908	58.7%
Hispanic	586,430	30.5%	576,166	29.4%
African American	92,624	4.8%	89,947	4.6%
American Indian	29,085	1.5%	33,061	1.7%
Asian	67,035	3.5%	74,588	3.8%
Multiple Races	34,823	1.8%	35,799	1.8%
Total	1,920,775		1,959,469	

**Age by Race/Ethnicity**

Age	White		Hispanic		African American		American Indian		Asian		Multiple Races		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
0-4	111,113	4.9%	127,594	11.0%	14,020	7.7%	5,306	8.5%	9,500	6.7%	11,441	16.2%	278,974
5-9	118,491	5.2%	124,219	10.7%	14,102	7.7%	5,177	8.3%	9,740	6.9%	10,134	14.3%	281,863
10-14	124,660	5.5%	118,461	10.2%	14,584	8.0%	5,039	8.1%	8,955	6.3%	9,007	12.8%	280,706
15-19	123,068	5.4%	111,539	9.6%	15,642	8.6%	5,192	8.4%	8,241	5.8%	7,493	10.6%	271,175
20-24	137,437	6.1%	102,888	8.8%	16,190	8.9%	6,916	11.1%	9,155	6.5%	5,900	8.4%	278,486
25-34	287,341	12.7%	188,642	16.2%	28,149	15.4%	11,533	18.6%	26,403	18.6%	9,623	13.6%	551,691
35-44	293,572	13.0%	164,554	14.2%	26,241	14.4%	8,640	13.9%	26,826	18.9%	6,730	9.5%	526,563
45-54	339,296	15.0%	114,454	9.8%	24,444	13.4%	7,330	11.8%	18,624	13.2%	4,842	6.9%	508,990
55-64	317,568	14.0%	63,234	5.4%	16,537	9.1%	4,302	6.9%	13,092	9.2%	3,048	4.3%	417,781
65-74	220,374	9.7%	29,777	2.6%	7,960	4.4%	1,852	3.0%	7,185	5.1%	1,529	2.2%	268,677
75-84	131,383	5.8%	13,307	1.1%	3,594	2.0%	639	1.0%	3,070	2.2%	670	0.9%	152,663
85+	56,383	2.5%	3,927	0.3%	1,108	0.6%	220	0.4%	832	0.6%	205	0.3%	62,675
Total	2,260,686		1,162,596		182,571		62,146		141,623		70,622		3,880,244

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2011.

**Maricopa County Five-Year Trends Population Statistics**

**Table 1.06 Population Estimates by Gender, Age, and Race/Ethnicity, 2011**

Females Age	White		Hispanic		African American		American Indian		Asian		Multiple Races		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
0-4	54,302	4.7%	62,414	10.8%	6,785	7.5%	2,703	8.2%	4,687	6.3%	5,632	15.7%	136,523
5-9	57,737	5.0%	61,058	10.6%	6,827	7.6%	2,550	7.7%	4,888	6.6%	4,951	13.8%	138,011
10-14	60,813	5.3%	58,081	10.1%	7,114	7.9%	2,527	7.6%	4,516	6.1%	4,393	12.3%	137,444
15-19	59,149	5.1%	54,126	9.4%	7,517	8.4%	2,573	7.8%	4,023	5.4%	3,731	10.4%	131,119
20-24	67,165	5.8%	49,578	8.6%	7,573	8.4%	3,587	10.8%	4,293	5.8%	3,035	8.5%	135,231
25-29	72,307	6.3%	45,954	8.0%	6,958	7.7%	3,217	9.7%	6,424	8.6%	2,691	7.5%	137,551
30-34	69,449	6.0%	45,971	8.0%	6,667	7.4%	2,972	9.0%	7,240	9.7%	2,340	6.5%	134,639
35-39	67,668	5.9%	44,174	7.7%	6,449	7.2%	2,485	7.5%	7,559	10.1%	1,894	5.3%	130,229
40-44	77,029	6.7%	38,398	6.7%	6,331	7.0%	2,227	6.7%	6,743	9.0%	1,614	4.5%	132,342
45-49	83,327	7.2%	31,673	5.5%	6,157	6.8%	2,276	6.9%	5,398	7.2%	1,352	3.8%	130,183
50-54	88,567	7.7%	25,469	4.4%	5,998	6.7%	1,873	5.7%	4,687	6.3%	1,160	3.2%	127,754
55-59	83,257	7.2%	18,824	3.3%	4,621	5.1%	1,360	4.1%	4,167	5.6%	926	2.6%	113,155
60-64	83,830	7.3%	14,008	2.4%	3,752	4.2%	1,096	3.3%	3,560	4.8%	739	2.1%	106,985
65-69	65,997	5.7%	9,636	1.7%	2,483	2.8%	627	1.9%	2,438	3.3%	504	1.4%	81,685
70-74	50,722	4.4%	6,554	1.1%	1,863	2.1%	457	1.4%	1,639	2.2%	339	0.9%	61,574
75+	108,589	9.4%	10,248	1.8%	2,852	3.2%	531	1.6%	2,326	3.1%	498	1.4%	125,044
<b>Total</b>	<b>1,149,908</b>		<b>576,166</b>		<b>89,947</b>		<b>33,061</b>		<b>74,588</b>		<b>35,799</b>		<b>1,959,469</b>
<b>Males</b>													
0-4	56,811	5.1%	65,180	11.1%	7,235	7.8%	2,603	8.9%	4,813	7.2%	5,809	16.7%	142,451
5-9	60,754	5.5%	63,161	10.8%	7,275	7.9%	2,627	9.0%	4,852	7.2%	5,183	14.9%	143,852
10-14	63,847	5.7%	60,380	10.3%	7,470	8.1%	2,512	8.6%	4,439	6.6%	4,614	13.2%	143,262
15-19	63,919	5.8%	57,413	9.8%	8,125	8.8%	2,619	9.0%	4,218	6.3%	3,762	10.8%	140,056
20-24	70,272	6.3%	53,310	9.1%	8,617	9.3%	3,329	11.4%	4,862	7.3%	2,865	8.2%	143,255
25-29	74,450	6.7%	49,081	8.4%	7,403	8.0%	2,881	9.9%	6,363	9.5%	2,427	7.0%	142,605
30-34	71,135	6.4%	47,636	8.1%	7,121	7.7%	2,463	8.5%	6,376	9.5%	2,165	6.2%	136,896
35-39	69,423	6.2%	43,271	7.4%	6,761	7.3%	2,088	7.2%	6,628	9.9%	1,734	5.0%	129,905
40-44	79,452	7.2%	38,711	6.6%	6,700	7.2%	1,840	6.3%	5,896	8.8%	1,488	4.3%	134,087
45-49	82,339	7.4%	32,529	5.5%	6,407	6.9%	1,664	5.7%	4,671	7.0%	1,227	3.5%	128,837
50-54	85,063	7.7%	24,783	4.2%	5,882	6.4%	1,517	5.2%	3,868	5.8%	1,103	3.2%	122,216
55-59	75,994	6.8%	17,497	3.0%	4,616	5.0%	1,041	3.6%	3,003	4.5%	801	2.3%	102,952
60-64	74,487	6.7%	12,905	2.2%	3,548	3.8%	805	2.8%	2,362	3.5%	582	1.7%	94,689
65-69	58,780	5.3%	8,273	1.4%	2,142	2.3%	453	1.6%	1,761	2.6%	403	1.2%	71,812
70-74	44,875	4.0%	5,314	0.9%	1,472	1.6%	315	1.1%	1,347	2.0%	283	0.8%	53,606
75+	79,177	7.1%	6,986	1.2%	1,850	2.0%	328	1.1%	1,576	2.4%	377	1.1%	90,294
<b>Total</b>	<b>1,110,778</b>		<b>586,430</b>		<b>92,624</b>		<b>29,085</b>		<b>67,035</b>		<b>34,823</b>		<b>1,920,775</b>

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2011.

**Maricopa County Five-Year Trends Population Statistics**

**Table 1.07 Population Estimates – Age by Gender, Race/Ethnicity by Gender, and Age by Race/Ethnicity 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%
<b>Total</b>	<b>1,888,465</b>		<b>1,928,652</b>		<b>3,817,117</b>	

**Race/Ethnicity by Sex**

Race/Ethnicity	Males		Females	
	No.	%	No.	%
White	1,100,779	58.3%	1,139,276	59.1%
Hispanic	568,138	30.1%	560,603	29.1%
African American	90,346	4.8%	87,144	4.5%
American Indian	27,632	1.5%	31,620	1.6%
Asian	63,813	3.4%	71,211	3.7%
Multiple Races	34,999	1.9%	36,048	1.9%
Other	2,758	0.1%	2,750	0.1%
<b>Total</b>	<b>1,888,465</b>		<b>1,928,652</b>	

**Age by Race/Ethnicity**

Age	White		Hispanic		African American		American Indian		Asian		Multiple Races		Other		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
0-4	113,519	5.1%	128,894	11.4%	13,966	7.9%	5,126	8.7%	9,358	6.9%	11,301	15.9%	606	11.0%	282,770
5-9	119,850	5.4%	123,906	11.0%	13,806	7.8%	4,906	8.3%	9,519	7.0%	10,164	14.3%	558	10.1%	282,709
10-14	124,435	5.6%	115,414	10.2%	14,510	8.2%	4,764	8.0%	8,643	6.4%	8,915	12.5%	547	9.9%	277,228
15-19	129,055	5.8%	110,053	9.8%	16,103	9.1%	5,460	9.2%	8,137	6.0%	7,561	10.6%	530	9.6%	276,899
20-24	134,058	6.0%	96,394	8.5%	14,877	8.4%	6,414	10.8%	8,950	6.6%	5,754	8.1%	425	7.7%	266,872
25-34	281,757	12.6%	185,230	16.4%	27,278	15.4%	10,926	18.4%	25,372	18.8%	9,708	13.7%	855	15.5%	541,126
35-44	297,869	13.3%	159,349	14.1%	25,922	14.6%	8,376	14.1%	25,489	18.9%	6,876	9.7%	717	13.0%	524,598
45-54	341,517	15.2%	108,003	9.6%	24,023	13.5%	6,929	11.7%	17,733	13.1%	5,112	7.2%	648	11.8%	503,965
55-64	305,537	13.6%	58,292	5.2%	15,195	8.6%	3,872	6.5%	11,970	8.9%	3,073	4.3%	370	6.7%	398,309
65-74	210,666	9.4%	27,316	2.4%	7,478	4.2%	1,705	2.9%	6,437	4.8%	1,613	2.3%	173	3.1%	255,388
75-84	128,420	5.7%	12,408	1.1%	3,277	1.8%	587	1.0%	2,714	2.0%	741	1.0%	52	0.9%	148,199
85+	53,372	2.4%	3,482	0.3%	1,055	0.6%	187	0.3%	702	0.5%	229	0.3%	27	0.5%	59,054
<b>Total</b>	<b>2,240,055</b>		<b>1,128,741</b>		<b>177,490</b>		<b>59,252</b>		<b>135,024</b>		<b>71,047</b>		<b>5,508</b>		<b>3,817,117</b>

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

## Maricopa County Five-Year Trends Population Statistics

### Table 1.08 Population Estimates by Gender, Age, and Race/Ethnicity, 2010

Females Age	White		Hispanic		African American		American Indian		Asian		Multiple Races		Other		Total No.
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
0-4	55,588	4.9%	63,141	11.3%	6,773	7.8%	2,600	8.2%	4,580	6.4%	5,524	15.3%	296	10.8%	138,502
5-9	58,331	5.1%	60,829	10.9%	6,653	7.6%	2,425	7.7%	4,825	6.8%	5,011	13.9%	295	10.7%	138,369
10-14	60,748	5.3%	56,647	10.1%	7,074	8.1%	2,399	7.6%	4,371	6.1%	4,380	12.2%	255	9.3%	135,874
15-19	62,294	5.5%	53,754	9.6%	7,665	8.8%	2,709	8.6%	3,884	5.5%	3,782	10.5%	259	9.4%	134,347
20-24	65,022	5.7%	46,734	8.3%	6,868	7.9%	3,360	10.6%	4,199	5.9%	2,947	8.2%	211	7.7%	129,341
25-29	71,723	6.3%	45,602	8.1%	6,924	7.9%	3,144	9.9%	6,429	9.0%	2,720	7.5%	213	7.7%	136,755
30-34	67,359	5.9%	45,371	8.1%	6,285	7.2%	2,782	8.8%	6,898	9.7%	2,345	6.5%	184	6.7%	131,224
35-39	71,229	6.3%	43,222	7.7%	6,403	7.3%	2,430	7.7%	7,377	10.4%	2,005	5.6%	204	7.4%	132,870
40-44	75,411	6.6%	36,556	6.5%	6,182	7.1%	2,164	6.8%	6,172	8.7%	1,590	4.4%	160	5.8%	128,235
45-49	86,148	7.6%	30,452	5.4%	6,236	7.2%	2,140	6.8%	5,152	7.2%	1,467	4.1%	185	6.7%	131,780
50-54	87,071	7.6%	23,684	4.2%	5,670	6.5%	1,777	5.6%	4,500	6.3%	1,175	3.3%	140	5.1%	124,017
55-59	81,486	7.2%	17,429	3.1%	4,358	5.0%	1,250	4.0%	3,868	5.4%	913	2.5%	117	4.3%	109,421
60-64	79,176	6.9%	12,769	2.3%	3,316	3.8%	950	3.0%	3,263	4.6%	754	2.1%	84	3.1%	100,312
65-69	63,514	5.6%	8,809	1.6%	2,377	2.7%	593	1.9%	2,101	3.0%	524	1.5%	60	2.2%	77,978
70-74	48,261	4.2%	6,134	1.1%	1,700	2.0%	409	1.3%	1,516	2.1%	356	1.0%	40	1.5%	58,416
75+	105,915	9.3%	9,470	1.7%	2,660	3.1%	488	1.5%	2,076	2.9%	555	1.5%	47	1.7%	121,211
<b>Total</b>	<b>1,139,276</b>		<b>560,603</b>		<b>87,144</b>		<b>31,620</b>		<b>71,211</b>		<b>36,048</b>		<b>2,750</b>		<b>1,928,652</b>
<b>Males</b>															
0-4	57,931	5.3%	65,753	11.6%	7,193	8.0%	2,526	9.1%	4,778	7.5%	5,777	16.5%	310	11.2%	144,268
5-9	61,519	5.6%	63,077	11.1%	7,153	7.9%	2,481	9.0%	4,694	7.4%	5,153	14.7%	263	9.5%	144,340
10-14	63,687	5.8%	58,767	10.3%	7,436	8.2%	2,365	8.6%	4,272	6.7%	4,535	13.0%	292	10.6%	141,354
15-19	66,761	6.1%	56,299	9.9%	8,438	9.3%	2,751	10.0%	4,253	6.7%	3,779	10.8%	271	9.8%	142,552
20-24	69,036	6.3%	49,660	8.7%	8,009	8.9%	3,054	11.1%	4,751	7.4%	2,807	8.0%	214	7.8%	137,531
25-29	73,634	6.7%	47,680	8.4%	7,217	8.0%	2,717	9.8%	5,988	9.4%	2,482	7.1%	231	8.4%	139,949
30-34	69,041	6.3%	46,577	8.2%	6,852	7.6%	2,283	8.3%	6,057	9.5%	2,161	6.2%	227	8.2%	133,198
35-39	73,438	6.7%	42,225	7.4%	6,806	7.5%	2,058	7.4%	6,553	10.3%	1,837	5.2%	182	6.6%	133,099
40-44	77,791	7.1%	37,346	6.6%	6,531	7.2%	1,724	6.2%	5,387	8.4%	1,444	4.1%	171	6.2%	130,394
45-49	84,886	7.7%	30,840	5.4%	6,401	7.1%	1,615	5.8%	4,455	7.0%	1,364	3.9%	165	6.0%	129,726
50-54	83,412	7.6%	23,027	4.1%	5,716	6.3%	1,397	5.1%	3,626	5.7%	1,106	3.2%	158	5.7%	118,442
55-59	73,897	6.7%	16,296	2.9%	4,303	4.8%	931	3.4%	2,732	4.3%	791	2.3%	90	3.3%	99,040
60-64	70,978	6.4%	11,798	2.1%	3,218	3.6%	741	2.7%	2,107	3.3%	615	1.8%	79	2.9%	89,536
65-69	56,188	5.1%	7,512	1.3%	2,019	2.2%	435	1.6%	1,577	2.5%	418	1.2%	48	1.7%	68,197
70-74	42,703	3.9%	4,861	0.9%	1,382	1.5%	268	1.0%	1,243	1.9%	315	0.9%	25	0.9%	50,797
75+	75,877	6.9%	6,420	1.1%	1,672	1.9%	286	1.0%	1,340	2.1%	415	1.2%	32	1.2%	86,042
<b>Total</b>	<b>1,100,779</b>		<b>568,138</b>		<b>90,346</b>		<b>27,632</b>		<b>63,813</b>		<b>34,999</b>		<b>2,758</b>		<b>1,888,465</b>

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

**Maricopa County Five-Year Trends Population Statistics**

**Table 1.09 Population Estimates – Age by Gender, Race/Ethnicity by Gender, and Age by Race/Ethnicity 2009**

**Age by Sex**

Age	Males		Females		Total	
	No.	%	No.	%	No.	%
0-4	147,638	7.8%	142,214	7.4%	289,852	7.6%
5-9	143,775	7.6%	136,857	7.1%	280,632	7.4%
10-14	141,063	7.5%	135,430	7.1%	276,493	7.3%
15-19	142,479	7.6%	134,174	7.0%	276,653	7.3%
20-24	137,456	7.3%	128,862	6.7%	266,318	7.0%
25-34	277,454	14.7%	271,174	14.1%	548,628	14.4%
35-44	265,931	14.1%	262,730	13.7%	528,661	13.9%
45-54	245,842	13.0%	252,996	13.2%	498,838	13.1%
55-64	182,725	9.7%	203,618	10.6%	386,343	10.2%
65-74	114,980	6.1%	131,980	6.9%	246,960	6.5%
75-84	64,368	3.4%	82,762	4.3%	147,130	3.9%
85+	20,183	1.1%	37,088	1.9%	57,271	1.5%
<b>Total</b>	<b>1,883,894</b>		<b>1,919,885</b>		<b>3,803,779</b>	

**Race/Ethnicity by Sex**

Race/Ethnicity	Males		Females	
	No.	%	No.	%
White	1,106,864	58.8%	1,145,362	59.7%
Hispanic	563,807	29.9%	552,811	28.8%
African American	89,612	4.8%	86,280	4.5%
American Indian	28,066	1.5%	31,875	1.7%
Asian	63,305	3.4%	70,351	3.7%
Multiple Races	32,240	1.7%	33,206	1.7%
<b>Total</b>	<b>1,883,894</b>		<b>1,919,885</b>	

**Age by Race/Ethnicity**

Age	White		Hispanic		African American		American Indian		Asian		Multiple Races		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
0-4	117,321	5.2%	132,011	11.8%	14,526	8.3%	5,444	9.1%	9,605	7.2%	10,945	16.7%	289,852
5-9	121,174	5.4%	122,184	10.9%	13,545	7.7%	4,978	8.3%	9,299	7.0%	9,452	14.4%	280,632
10-14	126,586	5.6%	113,674	10.2%	14,628	8.3%	4,712	7.9%	8,574	6.4%	8,319	12.7%	276,493
15-19	131,464	5.8%	108,163	9.7%	16,247	9.2%	5,675	9.5%	8,016	6.0%	7,088	10.8%	276,653
20-24	135,807	6.0%	95,332	8.5%	14,623	8.3%	6,568	11.0%	8,827	6.6%	5,161	7.9%	266,318
25-34	287,389	12.8%	188,082	16.8%	27,162	15.4%	11,111	18.5%	25,968	19.4%	8,916	13.6%	548,628
35-44	306,218	13.6%	156,634	14.0%	26,018	14.8%	8,516	14.2%	25,110	18.8%	6,165	9.4%	528,661
45-54	342,673	15.2%	104,083	9.3%	23,349	13.3%	6,815	11.4%	17,306	12.9%	4,612	7.0%	498,838
55-64	298,436	13.3%	55,381	5.0%	14,581	8.3%	3,759	6.3%	11,534	8.6%	2,652	4.1%	386,343
65-74	204,911	9.1%	25,914	2.3%	7,018	4.0%	1,603	2.7%	6,164	4.6%	1,350	2.1%	246,960
75-84	128,335	5.7%	11,840	1.1%	3,187	1.8%	584	1.0%	2,580	1.9%	604	0.9%	147,130
85+	51,912	2.3%	3,320	0.3%	1,008	0.6%	176	0.3%	673	0.5%	182	0.3%	57,271
<b>Total</b>	<b>2,252,226</b>		<b>1,116,618</b>		<b>175,892</b>		<b>59,941</b>		<b>133,656</b>		<b>65,446</b>		<b>3,803,779</b>

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

**Maricopa County Five-Year Trends Population Statistics**  
**Table 1.10 Population Estimates by Gender, Age, and Race/Ethnicity, 2009**

Females Age	White		Hispanic		African American		American Indian		Asian		Multiple Races		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
0-4	57,509	5.0%	64,749	11.7%	7,117	8.2%	2,755	8.6%	4,704	6.7%	5,380	16.2%	142,214
5-9	58,945	5.1%	59,707	10.8%	6,398	7.4%	2,468	7.7%	4,753	6.8%	4,586	13.8%	136,857
10-14	61,673	5.4%	55,800	10.1%	7,195	8.3%	2,360	7.4%	4,287	6.1%	4,115	12.4%	135,430
15-19	63,614	5.6%	52,690	9.5%	7,690	8.9%	2,810	8.8%	3,813	5.4%	3,557	10.7%	134,174
20-24	66,009	5.8%	45,886	8.3%	6,704	7.8%	3,421	10.7%	4,234	6.0%	2,608	7.9%	128,862
25-29	74,743	6.5%	46,614	8.4%	6,941	8.0%	3,209	10.1%	6,594	9.4%	2,605	7.8%	140,706
30-34	66,983	5.8%	45,291	8.2%	6,263	7.3%	2,809	8.8%	7,007	10.0%	2,115	6.4%	130,468
35-39	74,309	6.5%	42,445	7.7%	6,487	7.5%	2,415	7.6%	7,361	10.5%	1,770	5.3%	134,787
40-44	76,588	6.7%	35,580	6.4%	6,194	7.2%	2,223	7.0%	5,921	8.4%	1,437	4.3%	127,943
45-49	87,263	7.6%	29,515	5.3%	6,176	7.2%	2,147	6.7%	4,996	7.1%	1,329	4.0%	131,426
50-54	86,464	7.5%	22,563	4.1%	5,378	6.2%	1,705	5.3%	4,406	6.3%	1,054	3.2%	121,570
55-59	81,055	7.1%	16,728	3.0%	4,238	4.9%	1,238	3.9%	3,802	5.4%	815	2.5%	107,876
60-64	76,001	6.6%	12,001	2.2%	3,124	3.6%	907	2.8%	3,069	4.4%	640	1.9%	95,742
65-69	61,505	5.4%	8,332	1.5%	2,246	2.6%	543	1.7%	1,973	2.8%	432	1.3%	75,031
70-74	47,397	4.1%	5,866	1.1%	1,543	1.8%	388	1.2%	1,452	2.1%	303	0.9%	56,949
75+	105,304	9.2%	9,044	1.6%	2,586	3.0%	477	1.5%	1,979	2.8%	460	1.4%	119,850
Total	1,145,362		552,811		86,280		31,875		70,351		33,206		1,919,885
<b>Males</b>													
0-4	59,812	5.4%	67,262	11.9%	7,409	8.3%	2,689	9.6%	4,901	7.7%	5,565	17.3%	147,638
5-9	62,229	5.6%	62,477	11.1%	7,147	8.0%	2,510	8.9%	4,546	7.2%	4,866	15.1%	143,775
10-14	64,913	5.9%	57,874	10.3%	7,433	8.3%	2,352	8.4%	4,287	6.8%	4,204	13.0%	141,063
15-19	67,850	6.1%	55,473	9.8%	8,557	9.5%	2,865	10.2%	4,203	6.6%	3,531	11.0%	142,479
20-24	69,798	6.3%	49,446	8.8%	7,919	8.8%	3,147	11.2%	4,593	7.3%	2,553	7.9%	137,456
25-29	76,212	6.9%	49,137	8.7%	7,349	8.2%	2,832	10.1%	6,119	9.7%	2,297	7.1%	143,946
30-34	69,451	6.3%	47,040	8.3%	6,609	7.4%	2,261	8.1%	6,248	9.9%	1,899	5.9%	133,508
35-39	76,915	6.9%	41,865	7.4%	7,033	7.8%	2,095	7.5%	6,606	10.4%	1,691	5.2%	136,205
40-44	78,406	7.1%	36,744	6.5%	6,304	7.0%	1,783	6.4%	5,222	8.2%	1,267	3.9%	129,726
45-49	86,343	7.8%	30,013	5.3%	6,425	7.2%	1,589	5.7%	4,350	6.9%	1,255	3.9%	129,975
50-54	82,603	7.5%	21,992	3.9%	5,370	6.0%	1,374	4.9%	3,554	5.6%	974	3.0%	115,867
55-59	72,942	6.6%	15,587	2.8%	4,166	4.6%	953	3.4%	2,656	4.2%	694	2.2%	96,998
60-64	68,438	6.2%	11,065	2.0%	3,053	3.4%	661	2.4%	2,007	3.2%	503	1.6%	85,727
65-69	54,129	4.9%	7,095	1.3%	1,877	2.1%	428	1.5%	1,561	2.5%	348	1.1%	65,438
70-74	41,880	3.8%	4,621	0.8%	1,352	1.5%	244	0.9%	1,178	1.9%	267	0.8%	49,542
75+	74,943	6.8%	6,116	1.1%	1,609	1.8%	283	1.0%	1,274	2.0%	326	1.0%	84,551
Total	1,106,864		563,807		89,612		28,066		63,305		32,240		1,883,894

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

**Maricopa County Five-Year Trends Population Statistics**

**Table 1.11 Maricopa County, Phoenix, and Arizona Population 1980-2013**

<b>Year</b>	<b>City of Phoenix</b>	<b>Maricopa County</b>	<b>State of Arizona</b>	<b>Source</b>
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	1,342,908	3,175,989	5,273,477	2000-2010 U.S. Intercensal Estimate
2002	1,357,196	3,255,388	5,396,255	2000-2010 U.S. Intercensal Estimate
2003	1,368,806	3,328,468	5,510,364	2000-2010 U.S. Intercensal Estimate
2004	1,386,945	3,417,860	5,652,404	2000-2010 U.S. Intercensal Estimate
2005	1,417,720	3,538,988	5,839,077	2000-2010 U.S. Intercensal Estimate
2006	1,441,241	3,642,884	6,029,141	2000-2010 U.S. Intercensal Estimate
2007	1,450,901	3,711,954	6,167,681	2000-2010 U.S. Intercensal Estimate
2008	1,456,729	3,771,061	6,280,362	2000-2010 U.S. Intercensal Estimate
2009	1,452,679	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
2011	1,469,471	3,880,244	6,482,505	U.S. Census Estimates
2012	1,488,750	3,942,169	6,553,255	U.S. Census Estimates
2013	1,513,367	4,009,412	6,626,624	U.S. Census Estimates

Note: 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 Five-Year Health Trends***

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.01a Selected Underlying Causes of Death 2009-2013  
Number of Deaths**

Cause of Death		Number of Deaths					
		2009	2010	2011	2012	2013	
<b>Infectious Diseases</b>	Tuberculosis	5	10	7	1	12	
	Syphilis	0	0	1	2	1	
	HIV	62	67	60	67	53	
<b>Cancer</b>	Stomach	93	114	116	108	118	
	Colon	457	501	494	532	536	
	Pancreas	342	383	394	461	405	
	Lung	1,410	1,445	1,409	1,481	1,498	
	Breast	388	411	422	432	490	
	Uterine & Ovarian	252	260	298	288	301	
	Prostate	285	273	294	289	267	
	Urinary	288	292	307	297	301	
	Lymphoma	216	190	214	211	211	
	Leukemia	268	222	221	266	282	
	Other Cancer	1,421	1,417	1,479	1,503	1,599	
	<b>All Cancer</b>	<b>5,420</b>	<b>5,508</b>	<b>5,648</b>	<b>5,868</b>	<b>6,008</b>	
	<b>Diabetes and Alzheimer's</b>	Diabetes	548	702	1,000	939	934
Alzheimer's		1,481	1,665	1,732	1,518	1,555	
<b>Major Cardiovascular Diseases</b>	Heart Disease	Hypertensive Heart Disease	370	423	411	423	533
		Ischemic Heart Disease	3,957	4,145	3,940	4,145	3,817
		Other Heart Disease	816	790	885	790	1,136
		<b>All Heart Disease</b>	<b>5,143</b>	<b>5,358</b>	<b>5,236</b>	<b>5,358</b>	<b>5,486</b>
	Other Cardiovascular	Primary Hypertension	317	505	481	505	444
		Cerebrovascular	1,084	1,086	1,090	1,086	1,121
		Atherosclerosis	66	62	97	62	75
		Other Circulatory	199	178	176	178	176
		<b>All Other Cardiovascular</b>	<b>1,666</b>	<b>1,831</b>	<b>1,844</b>	<b>1,831</b>	<b>1,816</b>
		<b>Other Respiratory Diseases</b>	Influenza & Pneumonia	519	296	234	218
	Chronic Lower Respiratory	1,444	1,463	1,710	1,647	1,749	
<b>GI &amp; Urinary</b>	Peptic Ulcer	26	40	35	26	47	
	Liver Disease	383	386	428	459	488	
	Nephritis	197	180	94	131	135	
<b>Pregnancy &amp; Early Life</b>	Pregnancy	4	8	3	6	4	
	Perinatal Conditions	168	144	150	158	147	
	Congenital Malformations	126	114	120	146	113	
	SIDS	18	16	17	9	12	
<b>Other Diseases</b>	Symptoms, Signs	565	751	809	1,178	1,246	
	<b>Other Diseases</b>	<b>3,896</b>	<b>3,839</b>	<b>3,687</b>	<b>3,821</b>	<b>4,196</b>	
<b>External Causes</b>	Motor Vehicle Collisions <sup>1</sup>	355	336	358	340	372	
	All Other Accidents	1,241	1,243	1,304	1,121	1,265	
	Suicide	529	548	589	553	591	
	Homicide	212	219	202	204	212	
	Other External Causes	78	93	87	103	130	
	<b>All External Causes</b>	<b>2,415</b>	<b>2,439</b>	<b>2,540</b>	<b>2,540</b>	<b>2,570</b>	
<b>Unknown</b>		5	1	0	191	0	
<b>Total</b>		<b>24,338</b>	<b>24,438</b>	<b>25,464</b>	<b>25,786</b>	<b>26,891</b>	

<sup>1</sup> Refer to the Technical Notes for an explanation of the changes in these causes of death over time

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.01b Selected Underlying Causes of Death 2009-2013  
Crude Death Rate per 100,000 Residents**

Cause of Death			Death Rate					
			2009	2010	2011	2012	2013	
<b>Infectious Diseases</b>	Tuberculosis		0.1	0.3	0.2	0.0	0.3	
	Syphilis		0.0	0.0	0.0	0.1	0.0	
	HIV		1.6	1.8	1.5	1.7	1.3	
<b>Cancer</b>	Stomach		2.4	3.0	3.0	2.7	2.9	
	Colon		12.0	13.1	12.7	13.5	13.4	
	Pancreas		9.0	10.0	10.2	11.7	10.1	
	Lung		37.1	37.9	36.3	37.6	37.4	
	Breast		10.2	10.8	10.9	11.0	12.2	
	Uterine & Ovarian <sup>1</sup>		13.1	13.5	15.2	7.3	7.5	
	Prostate <sup>1</sup>		15.1	14.5	15.3	7.3	6.7	
	Urinary		7.6	7.6	7.9	7.5	7.5	
	Lymphoma		5.7	5.0	5.5	5.4	5.3	
	Leukemia		7.0	5.8	5.7	6.7	7.0	
	Other Cancer		37.4	37.1	38.1	38.1	39.9	
	<b>All Cancer</b>		<b>142.5</b>	<b>144.3</b>	<b>145.6</b>	<b>148.8</b>	<b>149.8</b>	
	<b>Diabetes and Alzheimer's</b>	Diabetes		14.4	18.4	25.8	23.8	23.3
		Alzheimer's		38.9	43.6	44.6	38.5	38.8
<b>Major Cardiovascular Diseases</b>	Heart Disease	Hypertensive Heart Disease	11.1	9.7	10.9	10.4	13.3	
		Ischemic Heart Disease	108.6	103.7	106.8	99.9	95.2	
		Other Heart Disease	22.7	21.4	20.4	22.4	28.3	
		<b>All Heart Disease</b>	<b>142.5</b>	<b>134.7</b>	<b>138.1</b>	<b>132.7</b>	<b>136.8</b>	
	Other Cardiovascular	Primary Hypertension	8.4	8.3	10.9	12.2	11.1	
		Cerebrovascular	28.1	28.4	106.8	27.6	28.0	
		Atherosclerosis	2.1	1.7	20.4	2.5	1.9	
		Other Circulatory	4.5	5.2	10.9	4.5	4.4	
		<b>All Other</b>	<b>43.0</b>	<b>43.6</b>	<b>47.2</b>	<b>46.8</b>	<b>45.3</b>	
		<b>Other Respiratory Diseases</b>		Influenza & Pneumonia	13.6	7.8	6.0	5.5
		Chronic Lower Respiratory	38.0	38.3	44.1	41.8	43.6	
<b>GI &amp; Urinary</b>	Peptic Ulcer		0.7	1.0	0.9	0.7	1.2	
	Liver Disease		10.1	10.1	11.0	11.6	12.2	
	Nephritis		5.2	4.7	2.4	3.3	3.4	
<b>Pregnancy &amp; Early Life</b>	Pregnancy <sup>1</sup>		0.1	0.2	0.2	0.2	0.1	
	Perinatal Conditions		4.4	3.8	3.9	4.0	3.7	
	Congenital Malformations		3.3	3.0	3.1	3.7	2.8	
	SIDS <sup>2</sup>		0.3	0.3	0.3	0.2	0.3	
<b>Other Diseases</b>	Symptoms, Signs		14.9	19.7	20.8	29.9	31.1	
	Other Diseases		102.4	100.6	95.0	96.9	104.7	
<b>External Causes</b>	Motor Vehicle Collisions <sup>3</sup>		9.3	8.8	9.2	8.6	9.3	
	All Other Accidents		32.6	32.6	33.6	28.4	31.6	
	Suicide		13.9	14.4	15.2	14.0	14.7	
	Homicide		5.6	5.7	5.2	5.2	5.3	
	Other External Causes		2.1	2.4	2.2	2.6	3.2	
	<b>All External Causes</b>		<b>63.5</b>	<b>63.9</b>	<b>65.5</b>	<b>58.8</b>	<b>64.1</b>	
<b>Unknown</b>			0.1	0.0	0.0	4.8	0.0	
<b>Total</b>			<b>639.8</b>	<b>640.2</b>	<b>656.2</b>	<b>647.2</b>	<b>670.0</b>	

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

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

<sup>3</sup> Refer to the Technical Notes for an explanation of the changes in these causes of death over time.

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.02a Other Selected Underlying Causes of Death 2009-2013  
Number of Deaths**

Cause of Death		Number of Deaths				
		2009	2010	2011	2012	2013
<b>Infectious Diseases</b>	<i>Clostridium difficile</i>	96	103	94	86	100
	Other Intestinal Infections	22	23	13	28	26
	Septicemia	298	199	107	107	143
	Viral Hepatitis	138	112	128	165	173
	Coccidioidomycosis	22	22	13	13	15
	Other Mycoses	18	12	7	3	2
<b>Cancer</b>	Brain	163	149	155	217	192
	Lip and Oral	59	63	77	69	72
	Skin (Melanoma)	121	103	102	118	119
	Ovarian	157	156	164	174	169
	Testicular	6	5	6	4	7
<b>Other Diseases</b>	Anemias	27	27	27	23	17
	Nutritional Deficiencies	22	22	26	17	17
	Obesity	50	90	83	115	93
	Mental & Behavioral Disorders Due to the Use of Alcohol	106	108	109	108	111
	Parkinson's Disease	252	270	312	310	324
	Multiple Sclerosis	38	47	41	38	48
	Epilepsy	17	19	19	20	10
<b>Cardiovascular</b>	Acute Myocardial Infarction	888	769	860	833	858
	Congestive Heart Failure	143	130	108	164	185
<b>Chronic Lower Respiratory</b>	Emphysema	109	120	79	58	69
	Asthma	28	32	57	38	53
<b>Liver Disease</b>	Alcoholic Liver Disease	262	299	335	345	387
<b>Musculoskeletal</b>	Rheumatoid Arthritis	15	31	41	27	37
	Lupus	7	12	12	17	17
	Osteoporosis	6	6	11	11	10
<b>Perinatal Conditions &amp; Congenital Malformations</b>	Disorders Related to Short Gestation & Low Birth Weight	65	49	42	40	41
	Congenital Malformations of the Circulatory System	47	36	38	40	40
	Chromosomal Abnormalities	19	21	18	26	18
<b>External Causes</b>	Falls	480	494	516	461	514
	Drowning	54	52	54	51	41
	Unintentional Poisoning <sup>1</sup>	493	462	480	413	494
	Exposure to Excessive Natural Heat	20	28	36	38	30
	Legal Intervention	3	7	6	6	8
	Accidental Discharge of Firearms	5	9	4	1	5
	Discharge of Firearms, Undetermined Intent	3	8	4	5	9
	Complications of Medical & Surgical Care	20	30	29	27	27

<sup>1</sup> Refer to the Technical Notes for an explanation of the changes in these causes of death over time

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.02b Other Selected Underlying Causes of Death 2009-2013  
Crude Death Rate per 100,000 Residents**

Cause of Death		Death Rate				
		2009	2010	2011	2012	2013
<b>Infectious Diseases</b>	<i>Clostridium difficile</i>	2.5	2.7	2.4	2.2	2.5
	Other Intestinal Infections	0.6	0.6	0.3	0.7	0.6
	Septicemia	7.8	5.2	2.8	2.7	3.6
	Viral Hepatitis	3.6	2.9	3.3	4.2	4.3
	Coccidioidomycosis	0.6	0.6	0.3	0.3	0.4
	Other Mycoses	0.5	0.3	0.2	0.1	0.0
<b>Cancer</b>	Brain	4.3	3.9	4.0	5.5	4.8
	Lip and Oral	1.6	1.7	2.0	1.8	1.8
	Skin (Melanoma)	3.2	2.7	2.6	3.0	3.0
	Ovarian <sup>1</sup>	8.2	8.1	8.4	4.4	4.2
	Testicular <sup>1</sup>	0.3	0.3	0.3	0.1	0.2
<b>Other Diseases</b>	Anemias	0.7	0.7	0.7	0.6	0.4
	Nutritional Deficiencies	0.6	0.6	0.7	0.4	0.4
	Obesity	1.3	2.4	2.1	2.9	2.3
	Mental & Behavioral Disorders Due to the Use of Alcohol	2.8	2.8	2.8	2.7	2.8
	Parkinson's Disease	6.6	7.1	8.0	7.9	8.1
	Multiple Sclerosis	1.0	1.2	1.1	1.0	1.2
	Epilepsy	0.4	0.5	0.5	0.5	0.2
<b>Cardiovascular</b>	Acute Myocardial Infarction	23.3	20.1	22.2	21.1	21.4
	Congestive Heart Failure	3.8	3.4	2.8	4.2	4.6
<b>Chronic Lower Respiratory</b>	Emphysema	2.9	3.1	2.0	1.5	1.7
	Asthma	0.7	0.8	1.5	1.0	1.3
<b>Liver Disease</b>	Alcoholic Liver Disease	6.9	7.8	8.6	8.8	9.7
<b>Musculoskeletal</b>	Rheumatoid Arthritis	0.4	0.8	1.1	0.7	0.9
	Lupus	0.2	0.3	0.3	0.4	0.4
	Osteoporosis	0.2	0.2	0.3	0.3	0.2
<b>Perinatal Conditions &amp; Congenital Malformations</b>	Disorders Related to Short Gestation & Low Birth Weight	1.7	1.3	1.1	1.0	1.0
	Congenital Malformations of the Circulatory System	1.2	0.9	1.0	1.0	1.0
	Chromosomal Abnormalities	0.5	0.6	0.5	0.7	0.4
<b>External Causes</b>	Falls	12.6	12.9	13.3	11.7	12.8
	Drowning	1.4	1.4	1.4	1.3	1.0
	Unintentional Poisoning <sup>2</sup>	13.0	12.1	12.4	10.5	12.3
	Exposure to Excessive Natural Heat	0.5	0.7	0.9	1.0	0.7
	Legal Intervention	0.1	0.2	0.2	0.2	0.2
	Accidental Discharge of Firearms	0.1	0.2	0.1	0.0	0.1
	Discharge of Firearms, Undetermined Intent	0.1	0.2	0.1	0.1	0.2
	Complications of Medical & Surgical Care	0.5	0.8	0.7	0.7	0.7

<sup>1</sup> Ovarian cancer rates are per 100,000 females; testicular cancer rates are per 100,000 males.

<sup>2</sup> Refer to the Technical Notes for an explanation of the changes in these rates over time.

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.03a Firearm, Drug, and Alcohol Induced and Related Deaths 2009-2013  
Number of Deaths**

Cause of Death	Number of Deaths				
	2009	2010	2011	2012	2013
Firearm Related	447	486	510	494	526
Drug Induced	618	604	611	574	685
Drug Related, Including Tobacco	824	3,903	3,984	3,870	4,058
Drug Related, Excluding Tobacco	684	715	742	713	808
Alcohol Induced	407	447	474	480	530
Alcohol Related	631	680	721	741	808

**Table 2.03b Firearm, Drug, and Alcohol Induced and Related Deaths 2009-2013  
Crude Death Rate per 100,000 Residents**

Cause of Death	Death Rate				
	2009	2010	2011	2012	2013
Firearm Related	11.8	12.7	13.1	12.5	13.1
Drug Induced	16.2	15.8	15.7	14.5	17.1
Drug Related, Including Tobacco	21.7	102.2	102.7	98.2	101.2
Drug Related, Excluding Tobacco	18.0	18.7	19.1	18.1	20.2
Alcohol Induced	10.7	11.7	12.2	12.1	13.2
Alcohol Related	16.6	17.8	18.6	18.8	20.2

*\*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.*

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.04a Selected Maternal & Child Health Indicators 2009-2013**

Maternal and Child Health Indicator		Number of Live Births					
		2009	2010	2011	2012	2013	
<b>Countywide Indicators</b>	Number of Live Births	57,655	54,235	53,361	54,475	53,848	
	Number of Male Infants of Total Live Births	29,499	27,649	27,284	27,876	27,677	
<b>Number of Live Births to Mothers With Selected Risk Factors</b>	Mothers With <12 Years Education	14,430	12,073	10,704	10,531	9,419	
	Births to Women 10-19 Years Old	6,246	5,342	4,780	4,698	4,231	
	Births to Women 15-17 Years Old	2,044	1,652	1,377	1,445	1,169	
	Births to Women Over 35 Years Old	7,832	7,664	7,901	7,965	8,089	
	Births to Never Married Women	25,535	23,557	22,797	23,784	23,374	
	Tobacco Use During Pregnancy	2,332	2,245	1,997	1,957	2,146	
	Alcohol Use During Pregnancy	247	237	267	228	211	
	Mother with Pre-Existing Cardiac Disease	128	154	143	130	222	
	Mother with Pre-Existing Diabetes	2,296	2,326	2,444	2,782	3,213	
	Mothers with No Medical Risk Factors for Pregnancy	39,202	35,811	34,803	36,095	35,725	
<b>Number of Live Births With Selected Risk Factors Associated with Pregnancy</b>	Induced Labor	13,194	12,598	11,217	10,221	10,118	
	Delivery via C-Section	Primary Cesarean Section	8,822	8,463	8,075	8,105	8,091
		Repeat Cesarean Section	7,567	6,895	7,104	7,335	7,261
	Preterm Births (Less than 37 Weeks)	6,032	5,366	5,116	5,110	4,977	
	Hospital Births	57,238	53,800	52,779	53,819	53,217	
	Method of Payment	AHCCCS Medicaid	30,613	28,906	27,981	28,389	28,346
		Indian Health Services	221	182	214	244	237
		Private Insurance	25,084	23,408	23,418	23,860	23,440
		Self Pay	1,372	1,485	1,525	1,873	1,738
	Prenatal Care	None	864	686	686	518	482
		1 <sup>st</sup> Trimester	48,689	46,571	45,486	46,962	45,624
		2 <sup>nd</sup> Trimester	6,698	5,638	5,697	5,665	6,191
		3 <sup>rd</sup> Trimester	1,296	1,231	1,190	1,202	1,469
	Number of Prenatal Care Visits	0	864	687	686	518	482
		1-4	1,493	1,369	1,378	1,417	1,490
		5-8	7,933	6,625	6,144	6,096	6,082
		9-12	28,396	26,926	25,198	26,031	25,795
		13+	18,849	18,510	19,606	20,264	19,905
	Plurality	Singletons	55,944	52,594	51,832	52,893	52,129
		Twins	1,633	1,592	1,471	1,582	1,651
Singleton Births Receiving Early & Adequate Prenatal Care <sup>1</sup>		41,988	40,007	39,578	41,187	40,164	
<b>Number of Live Births with Selected Risk Factors Associated with the Neonate</b>	Neonatal Intensive Care	3,841	3,429	2,950	2,626	3,036	
	Infants Transferred to Another Facility <sup>1</sup>	267	217	178	192	149	
	Birthweight	Very Low (<1500g)	690	575	658	637	597
		Low (<2500g)	3,428	3,278	3,062	3,094	3,111
		High (>4250g)	1,668	1,606	1,674	1,809	1,759
	Infants With a Neural Tube Defect <sup>2</sup>	10	11	13	12	19	
Infants With Fetal Alcohol Syndrome <sup>2</sup>	0	3	1	4	0		

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

<sup>2</sup> Due to the collection method for these data, information is underestimated.

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.04b Selected Maternal & Child Health Indicator Percentages 2009-2013**

Maternal and Child Health Indicator		Percent of Live Births					
		2009	2010	2011	2012	2013	
<b>Countywide Indicators</b>	Number of Live Births	57,655	54,235	54,235	54,475	53,848	
	% Male Infants of Total Live Births	51.2%	51.0%	51.1%	51.2%	51.4%	
	Fertility Rate per 1,000 Women Age 15-44 <sup>1</sup>	72.3	68.4	67.7	66.9	65.4	
<b>Percentage of Live Births to Mothers With Selected Risk Factors</b>	% Mothers With <12 Years Education	25.0%	22.3%	20.1%	19.3%	17.5%	
	% Births to Women 10-19 Years Old	10.8%	9.8%	9.0%	8.6%	7.9%	
	% Births to Women 15-17 Years Old	3.5%	3.0%	2.6%	2.7%	2.2%	
	% Births to Women Over 35 Years Old	13.6%	14.1%	14.8%	14.6%	15.0%	
	% Births to Never Married Women	44.3%	43.4%	42.7%	43.7%	43.4%	
	% Tobacco Use During Pregnancy	4.0%	4.1%	3.7%	3.6%	4.0%	
	% Alcohol Use During Pregnancy	0.4%	0.4%	0.5%	0.4%	0.4%	
	% Mother with Pre-Existing Cardiac Disease	0.2%	0.3%	0.3%	0.2%	0.4%	
	% Mother with Pre-Existing Diabetes	4.0%	4.3%	4.6%	5.1%	6.0%	
	% Mothers with No Medical Risk Factors for Pregnancy	68.0%	66.0%	65.2%	66.3%	60.8%	
<b>Percentage of Live Births With Selected Risk Factors Associated with Pregnancy</b>	% Induced Labor	22.9%	23.2%	21.0%	18.8%	18.8%	
	Delivery via C-Section	Primary Cesarean Section	15.6%	15.9%	15.1%	14.9%	15.0%
		Repeat Cesarean Section	12.7%	12.9%	13.3%	13.5%	13.5%
	% Preterm Births (Less than 37 Weeks)	10.5%	9.9%	9.6%	9.4%	9.3%	
	% Hospital Births	99.3%	99.2%	98.9%	98.8%	98.8%	
	Method of Payment	AHCCCS Medicaid	53.1%	53.3%	52.4%	52.1%	52.6%
		Indian Health Services	0.4%	0.3%	0.4%	0.4%	0.4%
		Private Insurance	43.5%	43.2%	43.9%	43.8%	43.5%
		Self Pay	2.4%	2.7%	2.9%	3.4%	3.2%
	Prenatal Care	None	1.5%	1.3%	1.3%	1.0%	0.9%
		1 <sup>st</sup> Trimester	84.4%	85.9%	85.2%	86.2%	84.7%
		2 <sup>nd</sup> Trimester	11.6%	10.4%	10.7%	10.4%	11.5%
		3 <sup>rd</sup> Trimester	2.2%	2.3%	2.2%	2.2%	2.7%
	Number of Prenatal Care Visits	0	1.5%	1.3%	1.3%	1.0%	0.9%
		1-4	2.6%	2.5%	2.6%	2.6%	2.8%
		5-8	13.8%	12.2%	11.5%	11.2%	11.3%
		9-12	49.3%	49.6%	47.2%	47.8%	47.9%
		13+	32.7%	34.1%	36.7%	37.2%	36.9%
	Plurality	Singletons	97.0%	97.0%	97.1%	97.1%	96.8%
		Twins	2.8%	2.9%	2.8%	2.9%	3.1%
	% Singleton Births Receiving Early & Adequate Prenatal Care <sup>2</sup>		72.8%	73.8%	74.2%	75.6%	74.6%
<b>Percentage of Live Births with Selected Risk Factors Associated with the Neonate</b>	Neonatal Intensive Care	6.7%	6.3%	5.5%	4.8%	5.6%	
	% Infants Transferred to Another Facility <sup>2</sup>		0.5%	0.4%	0.3%	0.4%	0.3%
	Birthweight	Very Low (<1500g)	1.2%	1.1%	1.2%	1.2%	1.1%
		Low (<2500g)	5.9%	6.0%	5.7%	5.7%	5.8%
		High (>4250g)	2.9%	3.0%	3.1%	3.3%	3.3%
	% Infants With a Neural Tube Defect <sup>3</sup>		0.0%	0.0%	0.0%	0.0%	0.0%
% Infants with Fetal Alcohol Syndrome <sup>3</sup>		0.0%	0.0%	0.0%	0.0%	0.0%	

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

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

<sup>3</sup> Due to the collection method for these data, information is underestimated.

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.05 Number of Births by Maternal Indicators for Infant Mortality Rate 2009-2013**

Maternal Indicators		Number of Live Births				
		2009	2010	2011	2012	2013
<b>Mother's Race</b>	White	24,721	24,485	24,786	24,749	24,353
	Hispanic	25,449	22,413	21,124	21,691	21,642
	African American	3,203	3,215	3,180	3,504	3,492
	American Indian	1,731	1,585	1,586	1,622	1,590
	Asian	2,349	2,335	2,518	2,735	2,566
	Other/Unknown	202	202	167	174	205
<b>Mother's Age</b>	<20	6,246	5,342	4,780	4,698	4,231
	20-29	30,476	28,487	27,853	28,403	28,249
	30-39	19,493	18,972	19,202	19,794	19,792
	40 and Older	1,439	1,434	1,526	1,578	1,574
<b>Mother's Education Level</b>	Less than 6th Grade	780	732	638	583	464
	6th-11th Grade	13,650	11,341	10,066	9,948	8,955
	High School Diploma	16,280	15,543	15,088	15,888	15,264
	College or Higher	26,637	26,280	26,769	27,599	28,774
	Unknown	308	339	800	457	391
<b>Birthweight</b>	<1,500 Grams	690	575	658	637	597
	1,500-2,499 Grams	3,428	3,278	3,062	3,094	3,111
	2,500-4,249 Grams	51,864	48,772	47,962	48,933	48,374
	>4,249 Grams	1,668	1,606	1,674	1,809	1,759
	Unknown	5	4	5	2	7

**Table 2.06a Infant Mortality by Race/Ethnicity of Mother 2009-2013 (Linked)**

Race/Ethnicity of Mother	Number of Infant Deaths					
	2009	2010	2011	2012	2013	Total
White	129	113	126	108	113	589
Hispanic	118	127	120	121	103	589
African American	45	36	30	41	47	199
American Indian	13	10	11	10	10	54
Asian	17	1	1	1	1	21
Other/Unknown	1	18	17	23	7	66
<b>Total</b>	<b>323</b>	<b>305</b>	<b>305</b>	<b>304</b>	<b>281</b>	<b>1,518</b>

**Table 2.06b Infant Mortality Rates by Race/Ethnicity of Mother, 2009-2013 (Linked)**  
**Infant Mortality per 1,000 Live Births**

Race/Ethnicity of Mother	Infant Mortality Rate per 1,000 Live Births					
	2009	2010	2011	2012	2013	Total
White	5.2	4.6	5.1	4.4	4.6	4.8
Hispanic	4.6	5.7	5.7	5.6	4.8	5.2
African American	14.0	11.2	9.4	11.7	13.5	12.0
American Indian	7.5	6.3	6.9	6.2	6.3	6.7
Asian	7.2	0.4	0.4	0.4	0.4	1.7
Other/Unknown <sup>1</sup>	-	-	-	-	-	-
<b>Total</b>	<b>5.6</b>	<b>5.6</b>	<b>5.7</b>	<b>5.6</b>	<b>5.2</b>	<b>5.5</b>

<sup>1</sup> Rates are not calculated as population (denominator) data is not available for Other/Unknown race and ethnicity.

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

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.07a Infant Mortality by Age of Mother 2009-2013 (Linked)**

Age of Mother	Number of Infant Deaths					
	2009	2010	2011	2012	2013	Total
<20	44	37	45	34	30	190
20-29	176	176	164	155	163	834
30-39	92	84	86	104	76	442
40 and Older	11	8	11	11	12	53
<b>Total</b>	<b>323</b>	<b>305</b>	<b>305</b>	<b>304</b>	<b>281</b>	<b>1,518</b>

**Table 2.07b Infant Mortality Rates by Age of Mother 2009-2013 (Linked)**  
**Infant Mortality per 1,000 Live Births**

Age of Mother	Infant Mortality Rate per 1,000 Live Births					
	2009	2010	2011	2012	2013	Total
<20	7.0	6.9	9.4	7.2	7.1	7.5
20-29	5.8	6.2	5.9	5.5	5.8	5.8
30-39	4.7	4.4	4.5	5.3	3.8	4.5
40 and Older	7.6	5.6	7.2	7.0	7.6	7.0
<b>Total</b>	<b>5.6</b>	<b>5.6</b>	<b>5.7</b>	<b>5.6</b>	<b>5.2</b>	<b>5.5</b>

**Table 2.08a Infant Mortality by Educational Level of Mother 2009-2013 (Linked)**

Education Level of Mother	Number of Infant Deaths					
	2009	2010	2011	2012	2013	Total
Less Than 6 <sup>th</sup> Grade	5	3	5	4	7	24
6 <sup>th</sup> – 11 <sup>th</sup> Grade	83	79	70	62	61	355
High School Diploma	114	94	106	101	101	516
College or Higher	119	124	118	135	105	601
Unknown	2	5	6	2	7	22
<b>Total</b>	<b>323</b>	<b>305</b>	<b>305</b>	<b>304</b>	<b>281</b>	<b>1,518</b>

**Table 2.08b Infant Mortality Rates by Educational Level of Mother 2009-2013 (Linked)**  
**Infant Mortality per 1,000 Live Births**

Education Level of Mother	Infant Mortality Rate per 1,000 Live Births					
	2009	2010	2011	2012	2013	Total
Less Than 6 <sup>th</sup> Grade	6.4	4.1	7.8	6.9	15.1	7.5
6 <sup>th</sup> – 11 <sup>th</sup> Grade	6.1	7.0	7.0	6.2	6.8	6.6
High School Diploma	7.0	6.0	7.0	6.4	6.6	6.6
College or Higher	4.5	4.7	4.4	4.9	3.6	4.4
Unknown <sup>1</sup>	-	-	-	-	-	-
<b>Total</b>	<b>5.6</b>	<b>5.6</b>	<b>5.7</b>	<b>5.6</b>	<b>5.2</b>	<b>5.5</b>

<sup>1</sup> Rates for the Other/Unknown group were excluded to better understand other Education levels' trend

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

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.09a Infant Mortality by Birthweight 2009-2013 (Linked)**

Birthweight	Number of Infant Deaths					
	2009	2010	2011	2012	2013	Total
<1500 Grams	174	152	162	152	145	785
1500-2499 Grams	44	40	50	56	37	227
2500-4249 Grams	100	109	86	94	95	484
>4249 Grams	4	3	6	2	2	17
Unknown	1	1	1	0	2	5
<b>Total</b>	<b>323</b>	<b>305</b>	<b>305</b>	<b>304</b>	<b>281</b>	<b>1,518</b>

**Table 2.09b Infant Mortality Rates by Birthweight 2009-2013 (Linked)**  
**Infant Mortality per 1,000 Live Births**

Birthweight	Infant Mortality Rate per 1,000 Live Births					
	2009	2010	2011	2012	2013	Total
<1500 Grams	252.2	264.3	246.2	238.6	242.9	248.7
1500-2499 Grams	12.8	12.2	16.3	18.1	11.9	14.2
2500-4249 Grams	1.9	2.2	1.8	1.9	2.0	2.0
>4249 Grams	2.4	1.9	3.6	1.1	1.1	2.0
Unknown <sup>1</sup>	-	-	-	-	-	-
<b>Total</b>	<b>5.6</b>	<b>5.6</b>	<b>5.7</b>	<b>5.6</b>	<b>5.2</b>	<b>5.5</b>

<sup>1</sup> Rates are not calculated for Other/Unknown race and ethnicity due to unreliable/unstable counts.

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

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.10 Infant Mortality and Rates by Age of Infant 2009-2013 (Linked & Unlinked)**

Number of Infant Deaths		2009	2010	2011	2012	2013	Total
<b>Linked Data</b>	Neonatal (≤ 28 Days)	220	198	203	210	196	1,027
	Postnatal (> 28 Days)	103	107	102	94	85	491
	<b>Total</b>	<b>323</b>	<b>305</b>	<b>305</b>	<b>304</b>	<b>281</b>	<b>1,518</b>
<b>Unlinked Data</b>	Neonatal (≤ 28 Days)	222	200	203	218	195	843
	Postnatal (> 28 Days)	107	111	105	105	90	428
	<b>Total</b>	<b>329</b>	<b>311</b>	<b>308</b>	<b>323</b>	<b>285</b>	<b>1,271</b>

Infant Mortality Rates per 1,000 Live Births		2009	2010	2011	2012	2013	Total
<b>Linked Data</b>	Neonatal (≤ 28 Days)	3.8	3.7	3.8	3.9	3.6	3.8
	Postnatal (> 28 Days)	1.8	2.0	1.9	1.7	1.6	1.8
	<b>Total</b>	<b>6.1</b>	<b>6.0</b>	<b>5.3</b>	<b>5.6</b>	<b>5.2</b>	<b>5.5</b>
<b>Unlinked Data</b>	Neonatal (≤ 28 Days)	3.9	3.7	3.8	4.0	3.6	3.1
	Postnatal (> 28 Days)	1.9	2.0	2.0	1.9	1.7	1.6
	<b>Total</b>	<b>6.3</b>	<b>6.1</b>	<b>5.3</b>	<b>5.9</b>	<b>5.2</b>	<b>4.6</b>

**Table 2.11a Infant Mortality by Age of Infant and Race/Ethnicity of Mother 2009-2013 (Linked)**

Linked Infant Mortality-Number of Infant Deaths		2009	2010	2011	2012	2013	Total
<b>Neonatal (≤ 28 Days)</b>	White	82	75	86	75	57	375
	Hispanic	84	83	79	88	94	428
	African American	28	23	22	29	34	136
	American Indian	11	5	3	3	2	24
	Asian	14	0	0	1	2	17
	Other/Unknown	1	12	13	14	7	47
	<b>Total</b>	<b>220</b>	<b>198</b>	<b>203</b>	<b>210</b>	<b>196</b>	<b>1,027</b>
<b>Postnatal (&gt; 28 Days)</b>	White	47	38	40	33	30	188
	Hispanic	34	44	41	33	33	185
	African American	17	13	8	12	10	60
	American Indian	2	5	8	7	3	25
	Asian	3	1	1	0	2	7
	Other/Unknown	0	6	4	9	7	26
	<b>Total</b>	<b>103</b>	<b>107</b>	<b>102</b>	<b>94</b>	<b>85</b>	<b>491</b>

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

**Maricopa County Five-Year Trends Vital Statistics**

**Table 2.11b Infant Mortality Rates by Age of Infant and Race/Ethnicity of Mother  
2009-2013 (Linked) Infant Mortality per 1,000 Live Births**

Linked Infant Mortality-Infant Mortality Rate per 1,000 Live Births		2009	2010	2011	2012	2013	Total
<b>Neonatal (≤ 28 Days)</b>	White	3.3	3.1	3.5	3.0	2.3	3.0
	Hispanic	3.3	3.7	3.7	4.1	4.3	3.8
	African American	8.7	7.2	6.9	8.3	9.7	8.2
	American Indian	6.4	3.2	1.9	1.8	1.3	3.0
	Asian	6.0	0.0	0.0	0.4	0.8	1.4
	Other/Unknown <sup>1</sup>	-	-	-	-	-	-
	<b>Total</b>	<b>3.8</b>	<b>3.7</b>	<b>3.8</b>	<b>3.9</b>	<b>3.6</b>	<b>3.8</b>
<b>Postnatal (&gt; 28 Days)</b>	White	1.9	1.6	1.6	1.3	1.2	1.5
	Hispanic	1.3	2.0	1.9	1.5	1.5	1.6
	African American	5.3	4.0	2.5	3.4	2.9	3.6
	American Indian	1.2	3.2	5.0	4.3	1.9	3.1
	Asian	1.3	0.4	0.4	0.0	0.8	0.6
	Other/Unknown <sup>1</sup>	-	-	-	-	-	-
	<b>Total</b>	<b>1.8</b>	<b>2.0</b>	<b>1.9</b>	<b>1.7</b>	<b>1.6</b>	<b>1.8</b>

<sup>1</sup>Rates are not calculated for Other/Unknown race and ethnicity due to unreliable/unstable counts.

**Table 2.12a Infant Mortality by Race/Ethnicity of Infant 2009-2013 (Unlinked)**

Race/Ethnicity of Infant	Number of Infant Deaths					
	2009	2010	2011	2012	2013	Total
White	122	90	104	104	92	512
Hispanic	131	150	146	155	126	708
African American	53	35	27	42	44	201
American Indian	11	6	7	8	5	37
Asian	12	3	3	2	4	24
Other/Unknown	0	27	11	12	14	64
<b>Total</b>	<b>329</b>	<b>311</b>	<b>308</b>	<b>323</b>	<b>285</b>	<b>1,556</b>

**Table 2.12b Infant Mortality Rates by Race/Ethnicity of Infant 2009-2013 (Unlinked)  
Infant Mortality per 1,000 Live Births**

Race/Ethnicity of Infant	Infant Mortality Rate per 1,000 Live Births				
	2009	2010	2011	2012	2013
White	4.9	3.7	4.2	4.2	3.8
Hispanic	5.1	6.7	6.9	7.1	5.8
African American	16.5	10.9	8.5	12.0	12.6
American Indian	6.4	3.8	4.4	4.9	3.1
Asian	5.1	1.3	1.2	0.7	1.6
Other/Unknown <sup>1</sup>	-	-	-	-	-
<b>Total</b>	<b>5.7</b>	<b>5.7</b>	<b>5.8</b>	<b>5.9</b>	<b>5.3</b>

<sup>1</sup>Rates are not calculated for Other/Unknown race and ethnicity due to unreliable/unstable counts.

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

## Maricopa County Five-Year Trends Communicable Disease Statistics

**Table 2.13a Number of Confirmed and Probable Cases of Selected Diseases<sup>1</sup> 2009-2013**

Disease		Number of Cases				
		2009	2010	2011	2012	2013
Vaccine Preventable	<i>H. influenzae</i> Type B <sup>2</sup>	1	2	1	1	1
	Measles	0	0	1	0	0
	Mumps	4	4	0	3	0
	Pertussis	236	409	698	867	443
Central Nervous System	Encephalitis Viral Other	1	2	4	1	1
	Aseptic Meningitis, Viral	435	642	321	386	292
	Meningococcal Invasive Disease	6	8	14	3	6
Enterics	Amebiasis	0	1	8	5	7
	Botulism	3	0	5	0	0
	Botulism, Infant <sup>3</sup>	0	0	0	1	0
	Campylobacteriosis	520	548	534	526	510
	Cholera	0	0	0	0	0
	Cryptosporidiosis	24	23	32	37	24
	<i>E. coli</i> O157.H7	47	63	79	90	187
	Giardiasis	116	106	73	59	58
	Listeriosis	5	6	6	7	2
	Norovirus <sup>4,5</sup>	40	77	70	113	78
	<i>Salmonella</i> Paratyphi	3	3	3	0	2
	Salmonellosis	560	508	385	430	488
	Shigellosis	553	245	210	211	256
Typhoid	2	6	1	5	9	
Mycosis	Coccidioidomycosis	8,078	9,460	13,404	10,148	4,118
Zoonoses/ Vectorborne	Brucellosis	2	6	3	4	1
	Dengue	5	7	3	7	4
	Hantavirus Pulm. Syndrome	0	0	1	0	0
	Lyme Disease	3	0	7	3	16
	Malaria	9	20	17	15	22
	West Nile Virus	19	115	45	90	52
Hepatitides	Hepatitis A	30	33	56	43	46
	Hepatitis B (Acute)	145	94	135	75	36
	Hepatitis D	0	0	0	0	0
Other	Legionellosis	37	44	28	29	35
	MRSA, Invasive	806	798	805	726	699
	RSV <sup>4,5</sup>	1,928	1,718	2,404	1,922	2,565
	Streptococcal Group A Invasive	85	101	112	112	123
	Streptococcal Group B <sup>6</sup> Invasive	27	30	24	38	25
	<i>Streptococcus pneumoniae</i> Invasive	474	423	434	387	450
	Toxic Shock Syndrome	1	3	2	1	1
	<i>Vibrio</i> Infection	9	13	16	17	12
	Yersiniosis	6	1	4	8	8
Hansen's Disease <sup>4</sup>	0	0	0	0	0	
Tuberculosis <sup>4</sup>	138	153	117	108	89	
Sexually Transmitted Diseases	Genital Herpes <sup>4</sup>	693	1,128	1,360	1,081	362
	Gonorrhea <sup>4</sup>	2,264	2,290	3,236	4,364	4,719
	Syphilis – Primary and Secondary <sup>4,7</sup>	160	159	200	162	209
	Syphilis – All Others <sup>4,7</sup>	496	475	430	457	669
	Chlamydia <sup>4</sup>	14,658	15,616	16,723	19,132	19,140
	HIV <sup>4</sup>	337	290	315	395	367
AIDS <sup>4</sup>	346	320	249	215	124	
All Others	316	194	546	397	275	
<b>Total</b>		<b>33,677</b>	<b>36,204</b>	<b>43,175</b>	<b>43,429</b>	<b>36,562</b>

<sup>1</sup>Unless otherwise indicated, numbers represent confirmed and probable cases.

<sup>2</sup>Beginning with the 2008-2012 report, only *H. influenzae* Type B cases are shown.

<sup>3</sup>Botulism, Infant cases occur among children aged less than 1 year.

<sup>4</sup>Confirmed cases only

<sup>5</sup>Norovirus and respiratory syncytial virus (RSV) were not reported to health departments until April 2008.

<sup>6</sup>Streptococcal Group B Invasive disease is only reportable for cases in infants under 90 days.

<sup>7</sup>Symptoms in adults are divided into four stages (primary, secondary, latent, & late syphilis). For more information please visit [www.cdc.gov](http://www.cdc.gov)

## Maricopa County Five-Year Trends Communicable Disease Statistics

**Table 2.13b Case Rates per 100,000 Residents for Selected Diseases<sup>1</sup> 2009-2013**

Disease		Rate of Disease				
		2009	2010	2011	2012	2013
<b>Vaccine Preventable</b>	<i>H. influenzae</i> Type B <sup>2</sup>	0.0	0.1	0.0	0.0	0.0
	Measles	0.0	0.0	0.0	0.0	0.0
	Mumps	0.1	0.1	0.0	0.1	0.0
	Pertussis	6.2	10.7	18.0	22.0	11.0
<b>Central Nervous System</b>	Encephalitis Viral Other	0.0	0.1	0.1	0.0	0.0
	Meningitis Viral/Aseptic	11.4	16.8	8.3	9.8	7.3
	Meningococcal Invasive Disease	0.2	0.2	0.4	0.1	0.1
<b>Enterics</b>	Amebiasis	0.0	0.0	0.2	0.1	0.2
	Botulism	0.1	0.0	0.1	0.0	0.0
	Botulism, Infant <sup>3</sup>	0.0	0.0	0.0	0.4	0.0
	Campylobacteriosis	13.7	14.4	13.8	13.3	12.7
	Cholera	0.0	0.0	0.0	0.0	0.0
	Cryptosporidiosis	0.6	0.6	0.8	0.9	0.6
	<i>E. coli</i> O157.H7	1.2	1.7	2.0	2.3	4.7
	Giardiasis	3.0	2.8	1.9	1.5	1.4
	Listeriosis	0.1	0.2	0.2	0.2	0.0
	Norovirus <sup>4,5</sup>	1.1	2.0	1.8	2.9	1.9
	<i>Salmonella</i> Paratyphi	0.1	0.1	0.1	0.0	0.0
	Salmonellosis	14.7	13.3	9.9	10.9	12.2
	Shigellosis	14.5	6.4	5.4	5.4	6.4
	Typhoid	0.1	0.2	0.0	0.1	0.2
<b>Mycosis</b>	Coccidioidomycosis	212.4	247.8	345.4	257.4	102.7
<b>Zoonoses/ Vectorborne</b>	Brucellosis	0.1	0.2	0.1	0.1	0.0
	Dengue	0.1	0.2	0.1	0.2	0.1
	Hantavirus Pulm. Syndrome	0.0	0.0	0.0	0.0	0.0
	Lyme Disease	0.1	0.0	0.2	0.1	0.4
	Malaria	0.2	0.5	0.4	0.4	0.5
	West Nile Virus	0.5	3.0	1.2	2.3	1.3
<b>Hepatitides</b>	Hepatitis A	0.8	0.9	1.4	1.1	1.1
	Hepatitis B (Acute)	3.8	2.5	3.5	1.9	0.9
	Hepatitis D	0.0	0.0	0.0	0.0	0.0
<b>Other</b>	Legionellosis	1.0	1.2	0.7	0.7	0.9
	MRSA, Invasive	21.2	20.9	20.7	18.4	17.4
	RSV <sup>4,5</sup>	50.7	45	62	48.8	64.0
	Streptococcal Group A Invasive	2.2	2.6	2.9	2.8	3.1
	Streptococcal Group B <sup>6</sup> Invasive	0.5	0.6	0.4	0.7	0.6
	<i>Streptococcus pneumoniae</i> Invasive	12.5	11.1	11.2	9.8	11.2
	Toxic Shock Syndrome	0.0	0.1	0.1	0.0	0.0
	<i>Vibrio</i> Infection	0.2	0.3	0.4	0.4	0.3
	Yersiniosis	0.2	0.0	0.1	0.2	0.2
	Hansen's Disease <sup>4</sup>	0.0	0.0	0.0	0.0	0.0
<b>Tuberculosis<sup>4</sup></b>	3.6	4.0	3.0	2.7	2.2	
<b>Sexually Transmitted Diseases</b>	Genital Herpes <sup>4</sup>	18.2	29.6	35.0	27.4	9.0
	Gonorrhea <sup>4</sup>	59.5	60	83.4	110.7	117.7
	Syphilis – Primary and Secondary <sup>4,7</sup>	4.2	4.2	5.2	4.1	5.2
	Syphilis – All Others <sup>4,7</sup>	13	12.4	11.1	11.6	16.7
	Chlamydia <sup>4</sup>	385.4	409.1	431	485.3	477.4
	HIV <sup>4</sup>	8.9	7.6	8.1	10.0	9.2
	AIDS <sup>4</sup>	9.1	8.4	6.4	5.5	3.1
<b>All Others</b>	8.3	5.1	14.1	10.1	6.9	
<b>Total</b>	885.4	948.5	1,112.70	1,101.7	911.9	

<sup>1</sup>Unless otherwise indicated, numbers represent confirmed and probable cases.

<sup>2</sup>Beginning with the 2008-2012 report, only *H. influenzae* Type B cases are shown.

<sup>3</sup>Rates for Botulism, Infant among children aged <1 year are per 100,000 residents in age group '0-4'

<sup>4</sup>Confirmed cases only

<sup>5</sup>Norovirus and respiratory syncytial virus (RSV) were not reported to health departments until April 2008.

<sup>6</sup>Rates for *Streptococcus Group B* Invasive disease infants <90 days are per 1,000 live births

<sup>7</sup>Symptoms in adults are divided into four stages (primary, secondary, latent, & late syphilis). For more information please visit [www.cdc.gov](http://www.cdc.gov)

**Maricopa County Five-Year Trends Communicable Disease Statistics**

**Table 2.14a Congenital Syphilis by Race/Ethnicity and Year  
Number of Cases, 2009-2013**

Race/Ethnicity	Number of Cases				
	2009	2010	2011	2012	2013
White	2	7	3	3	1
Hispanic	7	5	4	4	5
African American	1	1	1	2	4
American Indian	1	0	2	1	0
Asian	1	0	0	0	0
Other/Unknown	0	0	0	0	0
<b>Total</b>	<b>12</b>	<b>13</b>	<b>10</b>	<b>10</b>	<b>10</b>

**Table 2.14b Congenital Syphilis by Race/Ethnicity and Year  
Case Rates per 100,000 Live Births, 2009-2013**

Race/Ethnicity	Rate of Disease				
	2009	2010	2011	2012	2013
White	8.1	28.6	12.1	5.5	4.1
Hispanic	27.5	22.3	18.9	7.3	23.1
African American	31.2	31.1	31.4	3.7	57.3
American Indian	57.8	0.0	126.1	1.8	62.9
Asian	42.6	0.0	0.0	0.0	0.0
Other/Unknown	-	-	-	-	-
<b>Total</b>	<b>20.8</b>	<b>23.9</b>	<b>18.7</b>	<b>18.4</b>	<b>18.6</b>

**Table 2.15 Hansen's Disease Prevalence<sup>1</sup>**

Total number of cases reported in Maricopa County as of June 10, 2015	
<b>Gender</b>	
Male	19
Female	12
<b>Total</b>	<b>31</b>
<b>Age at Diagnosis</b>	
0-9	0
10-14	0
15-19	0
20-24	1
25-34	7
35-44	4
45-54	4
55-64	5
65 and Older	9
Unknown	1
<b>Total</b>	<b>31</b>

<sup>1</sup>This table includes all known "active" cases of Hansen's disease in Maricopa County, diagnosed between 1955 and 2013. Please note: to be considered "active," the prevalent cases being treated, managed, and followed-up at MCDPH and the Hansen's disease clinic have to be seen by a Hansen's disease physician, physical therapist, or occupational therapist within the past 5 years. Validation of past data revealed cases that were no longer "active," causing a drop in the number of "active" cases between the 2007-2011 five-year trend report and the current 2008-2012 five-year trend report.

**Maricopa County Five-Year Trends Hospital Discharge Statistics**

**Table 2.16a Primary Diagnosis Groups, Inpatient Hospitalizations, 2009-2013  
Number of Discharges**

Primary Diagnosis		Inpatient Discharges					Total
		2009	2010	2011	2012	2013	
<b>Infectious and parasitic diseases</b>	Septicemia	7,713	9,482	12,849	15,611	17,873	63,528
	Other infectious and parasitic diseases	7,511	7,962	7,492	7,355	6,669	36,989
	All	15,224	17,444	20,341	22,966	24,542	100,517
<b>Neoplasms</b>	Neoplasms - other malignant	8,625	8,501	8,227	8,141	7,616	41,110
	Malignant neoplasm of large intestine & rectum	1,380	1,341	1,284	1,359	1,308	6,672
	Malignant neoplasm of trachea, bronchus & lung	1,548	1,499	1,369	1,326	1,305	7,047
	Malignant neoplasm of breast	768	770	692	637	576	3,443
	Neoplasms - benign	3,850	3,595	3,215	2,729	2,602	15,991
	Neoplasms - other	611	612	668	642	694	3,227
	All	16,782	16,318	15,455	14,834	14,101	77,490
<b>Endocrine, nutritional and metabolic diseases, and immunity disorders</b>	Diabetes mellitus	6,258	6,378	6,793	6,562	6,246	32,237
	Volume depletion (dehydration)	195	235	229	222	182	1,063
	Other endocrine, nutritional and metabolic diseases, and immunity disorders	9,077	8,558	8,437	7,674	7,273	41,019
	All	15,530	15,171	15,459	14,458	13,701	74,319
<b>Diseases of the blood and blood-forming organs</b>		4,255	4,618	4,682	4,604	4,171	22,330
<b>Mental disorders</b>	Psychoses	7,254	7,506	9,117	9,489	10,281	43,647
	Alcohol dependence syndrome	426	424	598	631	429	2,508
	Other mental disorders	1,721	1,906	2,066	2,087	1,880	9,660
	All	9,401	9,836	11,781	12,207	12,590	55,815
<b>Diseases of the nervous system and sense organs</b>		9,150	9,916	10,346	9,886	9,334	48,632
<b>Diseases of the circulatory system</b>	Heart disease	10,584	11,590	12,010	11,901	11,769	57,854
	Acute myocardial infarction	5,107	5,360	5,271	5,361	5,360	26,459
	Coronary atherosclerosis	9,395	7,593	6,172	4,740	3,545	31,445

(Continued on next page)

## Maricopa County Five-Year Trends Hospital Discharge Statistics

(Table 2.16a continued)

Primary Diagnosis		Inpatient Discharges					Total
		2009	2010	2011	2012	2013	
	Other ischemic heart disease	344	335	333	282	209	1,503
	Cardiac dysrhythmias	9,031	9,466	9,386	9,428	8,126	45,437
	Congestive heart failure	2,746	2,280	1,514	1,034	875	8,449
	Cerebrovascular disease	9,935	10,179	10,092	10,118	9,156	49,480
	Other diseases of the circulatory system	11,067	11,373	10,916	9,632	8,757	51,745
	All	58,209	58,176	55,694	52,496	47,797	272,372
<b>Diseases of the respiratory system</b>	Acute bronchitis and bronchiolitis	2,774	3,148	3,162	2,448	2,538	14,070
	Pneumonia	10,527	10,077	10,096	9,145	8,802	48,647
	Chronic bronchitis	5,020	5,230	5,550	5,065	4,718	25,583
	Asthma	5,528	5,327	4,831	4,517	3,689	23,892
	Other diseases of the respiratory system	12,035	10,738	11,532	10,764	11,127	56,196
	All	35,884	34,520	35,171	31,939	30,874	168,388
<b>Diseases of the digestive system</b>	Appendicitis	5,202	5,061	4,640	3,779	3,032	21,714
	Noninfectious enteritis and colitis	3,675	4,031	3,938	3,910	3,530	19,084
	Cholelithiasis	665	896	886	945	874	4,266
	Other diseases of the digestive system	33,629	36,017	35,587	33,708	31,680	170,621
	All	43,171	46,005	45,051	42,342	39,116	215,685
<b>Diseases of the genitourinary system</b>	Calculus of kidney and ureter	2,338	2,663	2,707	2,676	2,633	13,017
	Other diseases of the genitourinary system	20,755	20,304	19,423	17,815	16,025	94,322
	All	23,093	22,967	22,130	20,491	18,658	107,339
<b>Diseases of the skin and subcutaneous tissue</b>	Cellulitis and abscess	8,587	9,198	9,277	8,909	8,399	44,370
	Other diseases of the skin and subcutaneous tissue	1,272	1,311	1,294	1,183	1,116	6,176
	All	9,859	10,509	10,571	10,092	9,515	50,546
<b>Diseases of the musculoskeletal system and connective tissue</b>	Osteoarthritis and allied disorders	10,146	10,796	10,815	11,229	12,575	55,561
	Intervertebral disc disorders	2,998	3,176	2,981	2,788	2,826	14,769
	Other - diseases of the musculoskeletal system and connective tissue	9,375	10,266	9,872	9,467	9,259	48,239
	All	22,519	24,238	23,668	23,484	24,660	118,569

(Continued on next page)

## Maricopa County Five-Year Trends Hospital Discharge Statistics

(Table 2.16a continued)

Primary Diagnosis		Inpatient Discharges					Total
		2009	2010	2011	2012	2013	
<b>Congenital anomalies</b>		1,812	1,578	1,776	1,657	1,525	8,348
<b>Certain conditions originating in the perinatal period</b>		2,462	2,130	1,923	1,996	1,627	10,138
<b>Symptoms, signs, and ill-defined conditions</b>		21,354	23,295	20,699	16,092	12,707	94,147
<b>Injury and poisoning</b>	Fracture of neck of femur	3,319	3,326	3,441	3,382	3,626	17,094
	Fractures, all other sites	9,749	10,020	10,007	9,561	9,193	48,530
	Poisonings	4,304	4,601	4,774	4,709	4,233	22,621
	Other injury and poisoning	21,714	22,952	22,279	21,293	20,597	108,835
	All	39,086	40,899	40,501	38,945	37,649	197,080
<b>Other healthcare encounters</b>	Rehab services	5,293	4,142	3,242	2,920	2,523	18,120
	Other healthcare encounters	3,242	2,978	2,922	2,884	2,726	14,752
	All	8,535	7,120	6,164	5,804	5,249	32,872
<b>Unknown</b>		1	1	0	3	0	5
<b>Total</b>		<b>323,563</b>	<b>336,327</b>	<b>341,412</b>	<b>324,293</b>	<b>307,816</b>	<b>1,633,411</b>

Note: Pregnant women, newborns, Long Term Acute Care Hospitals, and Rehabilitation Hospitals excluded

**Maricopa County Five-Year Trends Hospital Discharge Statistics**

**Table 2.16b Primary Diagnosis Groups, Inpatient Hospitalizations, 2009-2013  
Crude Hospitalization Rate per 100,000 Residents**

Primary Diagnosis		Inpatient Discharges				
		2009	2010	2011	2012	2013
<b>Infectious and parasitic diseases</b>	Septicemia	202.8	248.4	331.1	396.0	445.8
	Other infectious and parasitic diseases	197.5	208.6	193.1	186.6	166.3
	<b>All</b>	400.2	457.0	524.2	582.6	612.1
<b>Neoplasms</b>	Neoplasms - other malignant	226.7	222.7	212.0	206.5	190.0
	Malignant neoplasm of large intestine & rectum	36.3	35.1	33.1	34.5	32.6
	Malignant neoplasm of trachea, bronchus & lung	40.7	39.3	35.3	33.6	32.5
	Malignant neoplasm of breast	20.2	20.2	17.8	16.2	14.4
	Neoplasms - benign	101.2	94.2	82.9	69.2	64.9
	Neoplasms - other	16.1	16.0	17.2	16.3	17.3
	<b>All</b>	441.2	427.5	398.3	376.3	351.7
<b>Endocrine, nutritional and metabolic diseases, and immunity disorders</b>	Diabetes mellitus	164.5	167.1	175.1	166.5	155.8
	Volume depletion (dehydration)	5.1	6.2	5.9	5.6	4.5
	Other endocrine, nutritional and metabolic diseases, and immunity disorders	238.6	224.2	217.4	194.7	181.4
	<b>All</b>	408.3	397.4	398.4	366.8	341.7
<b>Diseases of the blood and blood-forming organs</b>		111.9	121.0	120.7	116.8	104.0
<b>Mental disorders</b>	Psychoses	190.7	196.6	235.0	240.7	256.4
	Alcohol dependence syndrome	11.2	11.1	15.4	16.0	10.7
	Other mental disorders	45.2	49.9	53.2	52.9	46.9
	<b>All</b>	247.1	257.7	303.6	309.7	314.0
<b>Diseases of the nervous system and sense organs</b>		240.6	259.8	266.6	250.8	232.8
<b>Diseases of the circulatory system</b>	Heart disease	278.2	303.6	309.5	301.9	293.5
	Acute myocardial infarction	134.3	140.4	135.8	136.0	133.7
	Coronary atherosclerosis	247.0	198.9	159.1	120.2	88.4
	Other ischemic heart disease	9.0	8.8	8.6	7.2	5.2
	Cardiac dysrhythmias	237.4	248.0	241.9	239.2	202.7

(Continued on next page)

## Maricopa County Five-Year Trends Hospital Discharge Statistics

(Table 2.16b continued)

Primary Diagnosis		Inpatient Discharges				
		2009	2010	2011	2012	2013
	Congestive heart failure	72.2	59.7	39.0	26.2	21.8
	Cerebrovascular disease	261.2	266.7	260.1	256.7	228.4
	Other diseases of the circulatory system	290.9	297.9	281.3	244.3	218.4
	All	1,530.3	1,524.1	1,435.3	1,331.7	1192.1
<b>Diseases of the respiratory system</b>	Acute bronchitis and bronchiolitis	72.9	82.5	81.5	62.1	63.3
	Pneumonia	276.8	264.0	260.2	232.0	219.5
	Chronic bronchitis	132.0	137.0	143.0	128.5	117.7
	Asthma	145.3	139.6	124.5	114.6	92.0
	Other diseases of the respiratory system	316.4	281.3	297.2	273.0	277.5
	All	943.4	904.3	906.4	810.2	770.0
<b>Diseases of the digestive system</b>	Appendicitis	136.8	132.6	119.6	95.9	75.6
	Noninfectious enteritis and colitis	96.6	105.6	101.5	99.2	88.0
	Cholelithiasis	17.5	23.5	22.8	24.0	21.8
	Other diseases of the digestive system	884.1	943.6	917.1	855.1	790.1
	All	1,135.0	1,205.2	1,161.0	1,074.1	975.6
<b>Diseases of the genitourinary system</b>	Calculus of kidney and ureter	61.5	69.8	69.8	67.9	65.7
	Other diseases of the genitourinary system	545.6	531.9	500.6	451.9	399.7
	All	607.1	601.7	570.3	519.8	465.4
<b>Diseases of the skin and subcutaneous tissue</b>	Cellulitis and abscess	225.7	241.0	239.1	226.0	209.5
	Other diseases of the skin and subcutaneous tissue	33.4	34.3	33.3	30.0	27.8
	All	259.2	275.3	272.4	256.0	237.3
<b>Diseases of the musculoskeletal system and connective tissue</b>	Osteoarthritis and allied disorders	266.7	282.8	278.7	284.8	313.6
	Intervertebral disc disorders	78.8	83.2	76.8	70.7	70.5
	Other - diseases of the musculoskeletal system and connective tissue	246.5	268.9	254.4	240.1	230.9
	All	592.0	635.0	610.0	595.7	615.1
<b>Congenital anomalies</b>		47.6	41.3	45.8	42.0	38.0
<b>Certain conditions originating in the perinatal period</b>		64.7	55.8	49.6	50.6	40.6

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## Maricopa County Five-Year Trends Hospital Discharge Statistics

(Table 2.16b continued)

Primary Diagnosis		Inpatient Discharges				
		2009	2010	2011	2012	2013
<b>Symptoms, signs, and ill-defined conditions</b>		561.4	610.3	533.4	408.2	316.9
<b>Injury and poisoning</b>	Fracture of neck of femur	87.3	87.1	88.7	85.8	90.4
	Fractures, all other sites	256.3	262.5	257.9	242.5	229.3
	Poisonings	113.2	120.5	123.0	119.5	105.6
	Other injury and poisoning	570.9	601.3	574.2	540.1	513.7
	All	1,027.6	1,071.5	1,043.8	987.9	939.0
<b>Other healthcare encounters</b>	Rehab services	139.2	108.5	83.6	74.1	62.9
	Other healthcare encounters	85.2	78.0	75.3	73.2	68.0
	All	224.4	186.5	158.9	147.2	130.9
<b>Unknown</b>		0.0	0.0	0.0	0.1	0.0
<b>Total</b>		<b>8,506.4</b>	<b>8,811.0</b>	<b>8,798.7</b>	<b>8,226.3</b>	<b>7,677.3</b>

Note: Pregnant women, newborns, Long Term Acute Care Hospitals, and Rehabilitation Hospitals excluded

**Maricopa County Five-Year Trends Hospital Discharge Statistics**

**Table 2.17a Primary Diagnosis Groups, Emergency Department, 2009-2013  
Number of Discharges**

Primary Diagnosis		Emergency Department Visits					Total
		2009	2010	2011	2012	2013	
<b>Infectious and parasitic diseases</b>	Septicemia	77	104	125	188	340	834
	Other infectious and parasitic diseases	30,090	22,126	23,130	24,651	24,503	124,500
	<b>All</b>	<b>30,167</b>	<b>22,230</b>	<b>23,255</b>	<b>24,839</b>	<b>24,843</b>	<b>125,334</b>
<b>Neoplasms</b>	Neoplasms - other malignant	324	355	405	599	649	2,332
	Malignant neoplasm of large intestine & rectum	13	33	36	57	61	200
	Malignant neoplasm of trachea, bronchus & lung	80	70	99	103	124	476
	Malignant neoplasm of breast	35	33	25	56	49	198
	Neoplasms - benign	533	582	629	697	734	3,175
	Neoplasms - other	101	91	141	146	169	648
	<b>All</b>	<b>1,086</b>	<b>1,164</b>	<b>1,335</b>	<b>1,658</b>	<b>1,786</b>	<b>7,029</b>
<b>Endocrine, nutritional and metabolic diseases, and immunity disorders</b>	Diabetes mellitus	5,370	5,407	5,913	6,570	6,911	30,171
	Volume depletion (dehydration)	24	37	67	40	49	217
	Other endocrine, nutritional and metabolic diseases, and immunity disorders	9,301	9,122	10,086	10,803	11,298	50,610
	<b>All</b>	<b>14,695</b>	<b>14,566</b>	<b>16,066</b>	<b>17,413</b>	<b>18,258</b>	<b>80,998</b>
<b>Diseases of the blood and blood-forming organs</b>		<b>2,940</b>	<b>3,167</b>	<b>3,517</b>	<b>3,775</b>	<b>3,990</b>	<b>17,389</b>
<b>Mental disorders</b>	Other mental disorders	20,863	24,344	26,108	27,458	26,660	125,433
	Psychoses	4,836	5,893	6,723	7,124	6,962	31,538
	Alcohol dependence syndrome	1,201	1,483	1,803	1,773	2,306	8,566
	<b>All</b>	<b>26,900</b>	<b>31,720</b>	<b>34,634</b>	<b>36,355</b>	<b>35,928</b>	<b>165,537</b>
<b>Diseases of the nervous system and sense organs</b>		<b>63,634</b>	<b>61,737</b>	<b>66,872</b>	<b>70,497</b>	<b>69,166</b>	<b>331,906</b>
<b>Diseases of the circulatory system</b>	Heart disease	452	484	759	959	1,271	3,925
	Acute myocardial infarction	371	364	441	461	532	2,169
	Coronary atherosclerosis	267	458	640	779	912	3,056
	Other ischemic heart disease	481	496	553	637	590	2,757

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## Maricopa County Five-Year Trends Hospital Discharge Statistics

(Table 2.17a continued)

Primary Diagnosis		Emergency Department Visits					Total
		2009	2010	2011	2012	2013	
	Cardiac dysrhythmias	4,567	4,763	5,482	5,868	6,392	27,072
	Congestive heart failure	995	1,028	1,132	1,141	1,327	5,623
	Cerebrovascular disease	1,497	1,616	2,169	2,316	2,869	10,467
	Other diseases of the circulatory system	11,339	12,204	13,987	15,837	16,333	69,700
	All	19,969	21,413	25,163	27,998	30,266	124,809
<b>Diseases of the respiratory system</b>	Acute bronchitis and bronchiolitis	15,160	12,915	14,986	16,583	17,431	77,075
	Pneumonia	14,087	11,944	12,097	12,019	10,946	61,093
	Chronic bronchitis	1,754	1,976	2,419	2,627	2,958	11,734
	Asthma	16,428	16,174	16,236	19,021	17,138	84,997
	Other diseases of the respiratory system	83,517	63,189	72,370	73,215	72,088	364,379
	All	130,946	106,198	118,135	123,456	126,561	605,296
<b>Diseases of the digestive system</b>	Appendicitis	749	1,016	1,655	2,394	2,946	8,760
	Noninfectious enteritis and colitis	10,930	10,856	10,367	12,468	13,489	58,110
	Cholelithiasis	89	91	156	160	164	660
	Other diseases of the digestive system	46,634	48,672	53,868	58,108	56,911	264,193
	All	58,402	60,635	66,046	73,130	73,510	331,723
<b>Diseases of the genitourinary system</b>	Calculus of kidney and ureter	10,868	10,705	11,301	11,231	11,260	55,365
	Other diseases of the genitourinary system	53,002	55,414	59,082	61,510	61,791	290,799
	All	63,870	66,119	70,383	72,741	73,051	346,164
<b>Complications of pregnancy, childbirth, &amp; the puerperium</b>		30,830	29,694	32,458	35,717	36,214	164,913
<b>Diseases of the skin and subcutaneous tissue</b>	Cellulitis and abscess	23,835	24,405	24,616	24,923	24,905	122,684
	Other diseases of the skin and subcutaneous tissue	16,783	17,081	17,796	18,183	17,588	87,431
	All	40,618	41,486	42,412	43,106	42,493	210,115
<b>Diseases of the musculoskeletal system and connective tissue</b>	Osteoarthritis and allied disorders	507	559	583	653	715	3,017
	Intervertebral disc disorders	1,085	1,089	1,267	1,306	1,388	6,135
	Other - diseases of the musculoskeletal system and connective tissue	68,997	73,763	79,186	79,784	78,182	379,912
	All	70,589	75,411	81,036	81,743	80,285	389,064

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## Maricopa County Five-Year Trends Hospital Discharge Statistics

(Table 2.17a continued)

Primary Diagnosis		Emergency Department Visits					Total
		2009	2010	2011	2012	2013	
<b>Congenital anomalies</b>		301	274	325	352	414	1,666
<b>Certain conditions originating in the perinatal period</b>		1,697	1,658	1,717	1,915	2,035	9,022
<b>Symptoms, signs, and ill-defined conditions</b>	Headache	23,120	25,007	25,695	25,522	24,361	123,705
	Abdominal pain	61,377	69,326	75,638	78,437	77,105	361,883
	Chest pain	39,610	45,259	55,610	62,043	60,843	263,365
	Fever	25,805	17,805	18,238	20,264	18,004	100,116
	Nausea/vomiting	20,888	22,293	22,689	25,076	25,000	115,946
	Other symptoms, signs, and ill-defined conditions	82,578	84,673	95,746	101,930	102,990	467,917
	All	253,378	264,363	293,616	313,272	308,303	1,432,932
<b>Injury and poisoning</b>	Fracture of neck of femur	209	207	200	290	262	1,168
	Fractures, all sites	30,333	30,882	30,503	31,405	30,333	30,609
	Poisonings	10,320	10,797	11,530	11,056	11,096	54,799
	Injury and poisoning	196,842	201,705	206,213	208,183	196,031	1,008,974
	All	237,704	243,591	248,446	250,934	237,998	1,218,673
<b>Newborn infant</b>		5	13	6	5	14	43
<b>Other healthcare encounters</b>		23,137	23,947	27,128	26,820	24,514	125,546
<b>Unknown</b>		1	2	0	0	0	3
<b>Total</b>		<b>1,070,869</b>	<b>1,069,388</b>	<b>1,152,550</b>	<b>1,205,735</b>	<b>1,183,589</b>	<b>5,682,131</b>

**Maricopa County Five-Year Trends Hospital Discharge Statistics**

**Table 2.17b Primary Diagnosis Groups, Emergency Department, 2009-2013  
Crude Rates per 100,000 Residents**

Primary Diagnosis		Rate of Emergency Department Visits				
		2009	2010	2011	2012	2013
<b>Infectious and parasitic diseases</b>	Septicemia	2.0	2.7	3.2	4.8	8.5
	Other infectious and parasitic diseases	791.1	579.7	596.1	625.3	611.1
	<b>All</b>	<b>793.1</b>	<b>582.4</b>	<b>599.3</b>	<b>630.1</b>	<b>619.6</b>
<b>Neoplasms</b>	Neoplasms - other malignant	8.5	9.3	10.4	15.2	16.2
	Malignant neoplasm of large intestine & rectum	0.3	0.9	0.9	1.4	1.5
	Malignant neoplasm of trachea, bronchus & lung	2.1	1.8	2.6	2.6	3.1
	Malignant neoplasm of breast	0.9	0.9	0.6	1.4	1.2
	Neoplasms - benign	14.0	15.2	16.2	17.7	18.3
	Neoplasms - other	2.7	2.4	3.6	3.7	4.2
	<b>All</b>	<b>28.6</b>	<b>30.5</b>	<b>34.4</b>	<b>42.1</b>	<b>44.5</b>
<b>Endocrine, nutritional and metabolic diseases, and immunity disorders</b>	Diabetes mellitus	141.2	141.7	152.4	166.7	172.4
	Volume depletion (dehydration)	0.6	1.0	1.7	1.0	1.2
	Other endocrine, nutritional and metabolic diseases, and immunity disorders	244.5	239.0	259.9	274.0	281.8
	<b>All</b>	<b>386.3</b>	<b>381.6</b>	<b>414.0</b>	<b>441.7</b>	<b>455.4</b>
<b>Diseases of the blood and blood-forming organs</b>		<b>77.3</b>	<b>83.0</b>	<b>90.6</b>	<b>95.8</b>	<b>99.5</b>
<b>Mental disorders</b>	Psychoses	127.1	154.4	173.3	180.7	173.6
	Alcohol dependence syndrome	31.6	38.9	46.5	45.0	57.5
	Other mental disorders	548.5	637.8	672.8	696.5	664.9
	<b>All</b>	<b>707.2</b>	<b>831.0</b>	<b>892.6</b>	<b>922.2</b>	<b>896.1</b>
<b>Diseases of the nervous system and sense organs</b>		<b>1,672.9</b>	<b>1,617.4</b>	<b>1,723.4</b>	<b>1,788.3</b>	<b>1,725.1</b>
<b>Diseases of the circulatory system</b>	Heart disease	11.9	12.7	19.6	24.3	31.7
	Acute myocardial infarction	9.8	9.5	11.4	11.7	13.3
	Coronary atherosclerosis	7.0	12.0	16.5	19.8	22.7
	Other ischemic heart disease	12.6	13.0	14.3	16.2	14.7
	Cardiac dysrhythmias	120.1	124.8	141.3	148.9	159.4
	Congestive heart failure	26.2	26.9	29.2	28.9	33.1

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## Maricopa County Five-Year Trends Hospital Discharge Statistics

(Table 2.17b continued)

Primary Diagnosis		Rate of Emergency Department Visits				
		2009	2010	2011	2012	2013
	Cerebrovascular disease	39.4	42.3	55.9	58.7	71.6
	Other diseases of the circulatory system	298.1	319.7	360.5	401.7	407.4
	All	525.0	561.0	648.5	710.2	753.9
<b>Diseases of the respiratory system</b>	Acute bronchitis and bronchiolitis	398.6	338.3	386.2	420.7	434.8
	Pneumonia	370.3	312.9	311.8	304.9	273.0
	Chronic bronchitis	46.1	51.8	62.3	66.6	73.8
	Asthma	431.9	423.7	418.4	482.5	427.4
	Other diseases of the respiratory system	2,195.6	1,655.4	1,865.1	1,857.2	1798.0
	All	3,442.5	2,782.2	3,044.5	3,131.7	3,006.9
<b>Diseases of the digestive system</b>	Appendicitis	19.7	26.6	42.7	60.7	73.5
	Noninfectious enteritis and colitis	287.3	284.4	267.2	316.3	336.4
	Cholelithiasis	2.3	2.4	4.0	4.1	4.1
	Other diseases of the digestive system	1,226.0	1,275.1	1,388.3	1,474.0	1419.4
	All	1,535.4	1,588.5	1,702.1	1,855.1	1,833.4
<b>Diseases of the genitourinary system</b>	Calculus of kidney and ureter	285.7	280.4	291.2	284.9	280.8
	Other diseases of the genitourinary system	1,393.4	1,451.7	1,522.6	1,560.3	1541.1
	All	1,679.1	1,732.2	1,813.9	1,845.2	1,822.0
<b>Complications of pregnancy, childbirth, &amp; the puerperium</b>		810.5	777.9	836.5	906.0	903.2
<b>Diseases of the skin and subcutaneous tissue</b>	Cellulitis and abscess	626.6	639.4	634.4	632.2	621.2
	Other diseases of the skin and subcutaneous tissue	441.2	447.5	458.6	461.2	438.7
	All	1,067.8	1,086.8	1,093.0	1,093.5	1,059.8
<b>Diseases of the musculoskeletal system and connective tissue</b>	Osteoarthritis and allied disorders	13.3	14.6	15.0	16.6	17.8
	Intervertebral disc disorders	28.5	28.5	32.7	33.1	34.6
	Other - diseases of the musculoskeletal system and connective tissue	1,813.9	1,932.4	2,040.7	2,023.9	1,950.0
	All	1,855.8	1,975.6	2,088.4	2,073.6	2,002.4
<b>Congenital anomalies</b>		7.9	7.2	8.4	8.9	10.3
<b>Certain conditions originating in the perinatal period</b>		44.6	43.4	44.2	48.6	50.8

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## Maricopa County Five-Year Trends Hospital Discharge Statistics

(Table 2.17b continued)

Primary Diagnosis		Rate of Emergency Department Visits				
		2009	2010	2011	2012	2013
<b>Symptoms, signs, and ill-defined conditions</b>	Headache	607.8	655.1	662.2	647.4	607.6
	Abdominal pain	1,613.6	1,816.2	1,949.3	1,989.7	1,923.1
	Chest pain	1,041.3	1,185.7	1,433.2	1,573.8	1,517.5
	Fever	678.4	466.5	470.0	514.0	449.0
	Nausea/vomiting	549.1	584.0	584.7	636.1	623.5
	Other symptoms, signs, and ill-defined conditions	2,170.9	2,218.2	2,467.5	2,585.6	2,568.7
	All	6,661.2	6,925.7	7,566.9	7,946.7	7,689.5
<b>Injury and poisoning</b>	Fracture of neck of femur	5.5	5.4	5.2	7.4	6.5
	Fractures, all other sites	797.4	809.0	786.1	796.6	763.4
	Poisonings	271.3	282.9	297.1	280.5	276.7
	Other injury and poisoning	5,174.9	5,284.2	5,314.4	5,280.9	4,889.3
	All	6,249.2	6,381.5	6,402.8	6,365.4	5,936.0
<b>Newborn infant</b>		0.1	0.3	0.2	0.1	0.3
<b>Other healthcare encounters</b>		608.3	627.4	699.1	680.3	611.4
<b>Unknown</b>		0.0	0.1	0.0	0.0	0.0
<b>Total</b>		<b>28,152.8</b>	<b>28,015.6</b>	<b>29,703.0</b>	<b>30,585.6</b>	<b>29,520.3</b>

### **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 data for tables 1.01 through 1.10 were obtained from the following sources:
  - For 2013 is from the U.S. Census Bureau, County Characteristics Datasets: Annual County Resident Population Estimates by Age, Sex, Race, and Hispanic Origin: April 1, 2010 to July 1, 2013. This can be found at <http://www.census.gov/popest/data/counties/asrh/2013/CC-EST2013-ALLDATA.html>.
  - For 2012 is from the U.S. Census Bureau, County Characteristics Datasets: Annual County Resident Population Estimates by Age, Sex, Race, and Hispanic Origin: April 1, 2010 to July 1, 2012. This can be found at <http://www.census.gov/popest/data/counties/asrh/2012/CC-EST2012-ALLDATA.html>.
  - For 2011 is from the U.S. Census Bureau, County Population Estimates by Age, Sex, Race, and Hispanic Origin for July 1, 2011 released May 2012. This can be found at <http://www.census.gov/popest/data/counties/asrh/2011/files/CC-EST2011-6RACE-04.csv>.
  - 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](http://www2.census.gov/census_2010/03-Demographic_Profile/Arizona/az2010.dp.zip).
  - For 2001 through 2009 is from the U.S. Census Bureau, 2000-2010 Intercensal Population Estimates by Age, Sex, Race and Hispanic Origin released October 2012. This can be found at: [Population Estimates: County Intercensal Estimates \(2000-2010\): Annual Population Estimates - U.S Census Bureau](http://www.census.gov/popest/data/intercensal/state/ST-EST00INT-02.html).
- The Arizona population data for table 1.11 were obtained from the following sources:
  - The population for 2013 is from the U.S. Census Bureau, Population Estimates for States by Age, Sex, Race, and Hispanic Origin: April 1 2010 to July 1, 2013. This can be found at: [http://www.census.gov/popest/data/historical/2010s/vintage\\_2013/state.html](http://www.census.gov/popest/data/historical/2010s/vintage_2013/state.html).
  - The population for 2012 is from the U.S. Census Bureau, Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2012. This can be found at: <http://www.census.gov/popest/data/state/totals/2012/tables/NST-EST2012-01.xls>.
  - The population for 2011 is from the U.S. Census Bureau, State Population Estimates by Age, Sex, Race, and Hispanic Origin for July 1, 2011 released December 2011. This can be found at: <http://www.census.gov/popest/data/state/totals/2011/index.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](http://www2.census.gov/census_2010/03-Demographic_Profile/Arizona/az2010.dp.zip).
  - for 2001 through 2009 is from the U.S. Census Bureau, 2000-2010 Intercensal Population Estimates. This can be found <http://www.census.gov/popest/data/intercensal/state/ST-EST00INT-02.html>.
- The Phoenix population for table 1.11 were obtained from the following sources:
  - The population for 2013 is from the U.S. Census Bureau, State & County QuickFacts. This can be found at: <http://quickfacts.census.gov/qfd/states/04/0455000.html>
  - The population for 2012 is from the U.S. Census Bureau, Annual Estimates of the Resident Population for Incorporated Places Over 50,000, Ranked by July 1, 2012 Population: April 1, 2010 to July 1, 2012. This can be found at: <http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>.
  - The population for 2011 is from the U.S. Census Bureau, City and Town Population Estimates by Age, Sex, Race, and Hispanic Origin for July 1, 2011 released June 2012. This can be found at: [http://www.census.gov/popest/data/cities/totals/2011/files/SUB-EST2011\\_4.csv](http://www.census.gov/popest/data/cities/totals/2011/files/SUB-EST2011_4.csv).
  - The population for 2010 is from the U.S. Census Bureau, State & County Quickfacts. This can be found at: <http://quickfacts.census.gov/qfd/states/04/0455000.html>.
  - The population for 2001-2009 is from U.S. Census Bureau. This can be found at: [http://www.census.gov/popest/cities/files/SUB-EST2009\\_ALL.csv](http://www.census.gov/popest/cities/files/SUB-EST2009_ALL.csv).

The population estimates used in this report for 2009 are from the U.S. Census and based on the Census 2000 and Census 2010 population. The 2010 decennial census population was used for 2010, and US Census annual population estimates were used for 2011, 2012 and 2013. Reports published prior to 2010 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 (2009-2013) in this report. The table below shows how the U.S. Census variables of “origin” and “race” are used for categorization in this report.

**Table 3.1 Race/Ethnicity Categories Used in This Report**

<b>Category Used in This Report</b>	<b>U.S. Census Code “Race”</b>	<b>U.S. Census Code “Origin”</b>
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)
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)

Census data are used to calculate rates for mortality, morbidity, and hospital discharge data. Any crude rate can be calculated by taking the number of events from any table in this report (for mortality, morbidity and hospital discharge) and dividing it by the appropriate age, gender, 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 in that category. However, when the number “0.0” is shown, it means that there were fewer than .05 deaths per 100,000 residents. Only a couple conditions, Sudden Infant Death Syndrome (SIDS) in the mortality tables and Strep Group B in the morbidity tables are calculated differently. By definition, SIDS deaths and Strep Group B cases only occur in infants; as a result, these numbers are divided by the number of live births (rather than the standard 100,000 residents) to produce a rate per 1,000 live births.

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 200,000 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.

Table **2.14b**, does 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.

**Mortality (Death) Statistics**

Mortality (death) statistics are shown in Tables **2.01a** through **2.03b**.

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). Therefore, the numbers presented in this report may not precisely match those presented by ADHS in other reports.

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.’

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, 10<sup>th</sup> 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, 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**

<b>Cause</b>	<b>ICD-10 Codes Used</b>
<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

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(Table 3.2 Continued)

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
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	K70, K73-K74

(Continued on next page)

(Table 3.2 Continued)

liver disease	
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
Ill Defined Disease Conditions (Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified, excluding SIDS)	R00-R94, R96-R99
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,

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(Table 3.2 Continued)

	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 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.

### **Natality (Birth) Statistics**

Natality (birth) statistics are shown in Tables **2.04a** through **2.05**.

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). 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 (APCUI)<sup>1</sup>. 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 **2.06a** through **2.12b**.

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 (fewer than 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.

The following definitions related to reproductive health have been established by NCHS<sup>2</sup>:

- Birth or Live Birth<sup>3</sup> – 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.

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<sup>1</sup> 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.

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

<sup>3</sup> The Arizona statute defining a live birth follows this definition.

- 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 37<sup>th</sup> week (259<sup>th</sup> 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.

### ***Communicable Disease (Morbidity) Statistics***

Communicable disease statistics are shown in Tables **2.13a** through **2.15**.

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.

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 and probable cases, with the exception of: norovirus, RSV, Hansen’s disease, tuberculosis, genital herpes, gonorrhea, syphilis, chlamydia, and HIV/AIDS. Data for norovirus, RSV, tuberculosis, genital herpes, gonorrhea, syphilis, chlamydia, and HIV/AIDS includes only confirmed cases. Data for Hansen’s disease includes all known “active” cases of Hansen’s

disease in Maricopa County, diagnosed between 1955 and 2013. To be considered “active,” the prevalent cases being treated, managed, and followed-up at MCDPH and the Hansen’s disease clinic have to be seen by a Hansen’s disease physician, physical therapist, or occupational therapist within the past five years. This includes all confirmed, suspect, and probable cases diagnosed in Maricopa County, including diagnoses to non-county residents, as mentioned earlier. Other reports or releases may show different prevalence rates, as validation of past data revealed cases that were no longer “active,” causing a drop in the number of “active” cases between the 2009-2011 reported numbers compared to 2012-2013.

Primary and secondary syphilis are shown as “Syphilis-Primary and Secondary.” 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 **2.14a** and **2.14b**.

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 “active” cases from all years) is shown.

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 Other” 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.

In 2012, the case definition of Lyme Disease changed, which may explain the sudden increase in numbers in 2013 (n=16).

In 2009, a major laboratory changed their reporting practices of Coccidioidomycosis, causing a significant increase in reported cases in subsequent years. Changes in testing practices may account for the significant drop of cocci cases in 2013.

Comparison of hepatitis B cases from 2009-2013 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 2012, ADHS removed Genital Herpes from the administrative code of reportable diseases, resulting in the significant decrease between 2012 and 2013.

In Tables **2.13a** and **2.13b**, the category labeled “All Others” includes all reportable diseases in the ADHS communicable disease database that are not listed previously on the table.

### ***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 15<sup>th</sup> 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 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](mailto: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.

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**

<b>Category of Principal Diagnoses</b>	<b>ICD-9-CM Code</b>
<b>Infectious and parasitic diseases</b>	001–139
Septicemia	38
<b>Neoplasms</b>	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
<b>Endocrine, nutritional &amp; metabolic diseases, &amp; immunity disorders</b>	240–279
Diabetes mellitus	250
Volume depletion (dehydration)	277
<b>Diseases of the blood and blood-forming organs</b>	280–289
<b>Mental disorders</b>	290–319
Psychoses	290–299
Alcohol dependence syndrome	303
<b>Diseases of the nervous system and sense organs</b>	320–389
<b>Diseases of the circulatory system</b>	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
<b>Diseases of the respiratory system</b>	460–519
Acute bronchitis and bronchiolitis	466
Pneumonia	480-486
Chronic bronchitis	491

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(Table 3.3 Continued)

<b>Category of Principal Diagnoses</b>	<b>ICD-9-CM Code</b>
Asthma	493
<b>Diseases of the digestive system</b>	520-579
Appendicitis	540-543
Noninfectious enteritis and colitis	555-558
Cholelithiasis	574
<b>Diseases of the genitourinary system</b>	580-629
Calculus of kidney and ureter	592
<b>Complications of pregnancy, childbirth, and the puerperium</b>	630-677
<b>Diseases of the skin and subcutaneous tissue</b>	680-709
Cellulitis and abscess	681-682
<b>Diseases of the musculoskeletal system and connective tissue</b>	710-739
Osteoarthritis and allied disorders	715
Intervertebral disc disorders	722
<b>Congenital anomalies</b>	740-759
<b>Certain conditions originating in the perinatal period</b>	760-779
<b>Symptoms, signs, and ill-defined conditions</b>	780-799
<b>Injury and poisoning</b>	800-999
Fractures, all sites	800-829
Fracture of neck of femur	820
Poisonings	960-989
<b>Other healthcare encounters</b>	990-999

**More Information**

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

- Maricopa County Department of Public Health: [www.WeArePublicHealth.org](http://www.WeArePublicHealth.org)
- Arizona Department of Health Services: [www.azdhs.gov](http://www.azdhs.gov)
- Centers for Disease Control and Prevention, National Center for Health Statistics: [www.cdc.gov/nchs](http://www.cdc.gov/nchs)
- United States Census Bureau: [www.census.gov](http://www.census.gov)